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DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XII,

NEW YORK, MAY 30, 1923

No. 22



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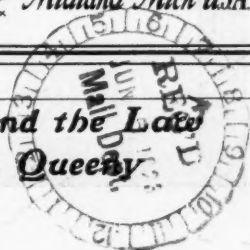
SECTIONAL
VIEW:
WORKS OF

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In This Issue { *Saccharin and the Late*
By John F. Queeny



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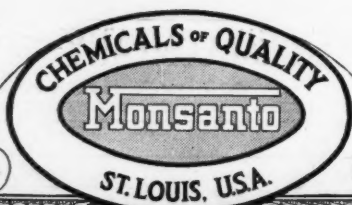
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Table of Contents

EDITORIALS—

| | |
|---------------------------------|------|
| Chemical Prices..... | 1353 |
| Germany Loses Dye Monopoly..... | 1353 |
| Declare Business Is Sound..... | 1353 |
| "We Undersell Everybody"..... | 1354 |
| Many Men: Many Minds..... | 1354 |

FEATURE TRADE ARTICLE—

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Legal Status of Saccharin, Manner In Which the "Coal-Tar Stigma" of Government Officials Has Been Combated Since Its Discovery In 1879 By Remsen. By John F. Queeny, Chairman of the Board, Monsanto Chemical Works..... | 1355 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

TRADE NEWS—

| | |
|---------------------------------------------------------------------|------|
| Proprietary Association Elects Dr. V. Mott Pierce as President..... | 1357 |
| Inorganic Chemical Output In 1922 Less Than in 1919..... | 1358 |
| Chart of Sodium Nitrate Prices For Fifty Years..... | 1359 |
| Mathieson Alkali Earnings Increasing..... | 1360 |
| Rush For Calcium Arsenate Expected..... | 1363 |
| Figures Show Vanillin Too Cheap..... | 1373 |
| New Consuming Companies..... | 1374 |
| Newfoundland To Build \$25,000,000 Paper Plant..... | 1374 |

MARKET REPORTS—

| | |
|-------------------------------|-----------|
| Heavy Chemicals..... | 1362-1363 |
| Intermediates and Dyes..... | 1364-1365 |
| The Oil Market..... | 1366-1367 |
| Fine Chemicals..... | 1368-1369 |
| Crude Drugs..... | 1370-1371 |
| Essential Oils..... | 1372-1373 |
| The Consuming Industries..... | 1374 |
| Foreign Markets..... | 1375 |

| | |
|---------------------|------|
| PRICES CURRENT..... | 1376 |
|---------------------|------|

| | |
|--------------|------|
| IMPORTS..... | 1399 |
|--------------|------|

| | |
|-----------------------|------|
| WANTS and OFFERS..... | 1402 |
|-----------------------|------|

| | |
|--------------------|------|
| BUYER'S GUIDE..... | 1403 |
|--------------------|------|

| | |
|---------------------------|------|
| INDEX TO ADVERTISERS..... | 1404 |
|---------------------------|------|



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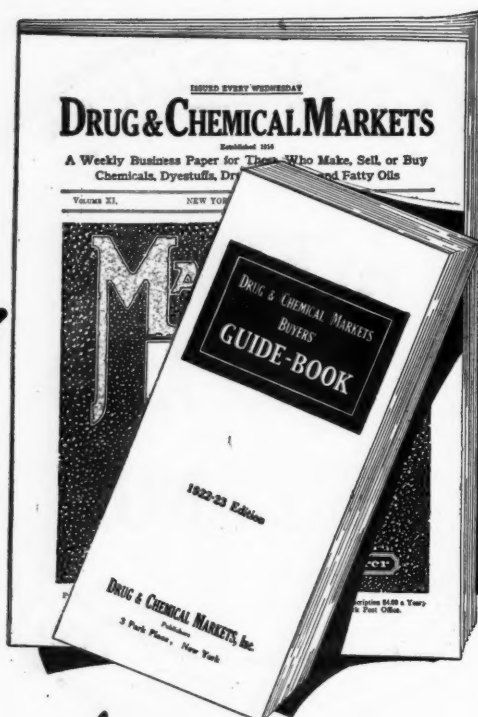
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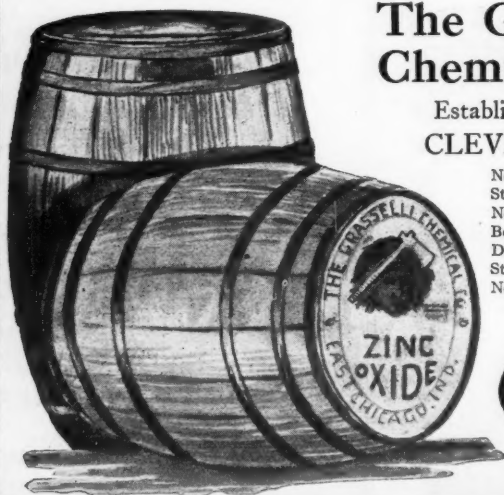
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3 PARK PLACE, NEW YORK

VOLUME XII, NUMBER 22

[MAY 30, 1923]

"WE UNDERSELL EVERYBODY"

"We know that to get your business we must undersell the others. We are prepared to do that."

This rather coldly calculating statement was the concluding paragraph of a letter we received recently soliciting business on a product much used in the publishing field. Most certainly a bold admission—"whatever the other fellow quotes, we will quote less."

Only simpletons believe the hackneyed tale—"we will undersell everybody to get your business." Sensible men realize that in the long run they pay for the goods plus profit and interest, and they would close their ears to business fairy-tales. Just so long as one remembers that we are all in business to make a profit; just so long will one evade the subtle wiles of the apparent habitual price-cutter. To shun the house whose prices are always suspiciously low, is frequently to avoid second rate merchandise and sharp practice. Competition drives prices sooner or later to the lowest level compatible with sound business, and the house which always goes below this level—then let the buyer beware. No one firm is always in a position to undersell all competitors on all products. Those who say they can are deluding themselves or their customers, and in the interest of ordinary business caution, it may be good policy to pay somewhat higher prices elsewhere.

GERMANY LOSES DYE MONOPOLY

The chemical industry of Germany as a factor in world trade is exceeded only by the textile and steel industries, but its importance to Germany is greater than exports of dyes and chemicals indicate because manufacturers use domestic raw materials. The textile manufacturers are obliged to import cotton and wool, and steel makers must buy in foreign countries, iron ore, pig and scrap iron, manganese, chromium, tungsten, and other metals which Germany formerly controlled in sufficient quantities to supply the domestic demand and allow a margin for export. The estimated quantity and value of German chemical exports, according to the Department of Commerce were 890,000 metric tons in 1922, compared with 690,000 tons in 1921. When compared with the year before the war, however, her heavy losses in foreign trade became apparent. In 1913 the chemical exports were 2,529,000 metric tons, valued at 912,000,000 gold marks, while the value of the 890,000 tons exported in 1922 was only 290,000,000 gold marks.

The costs of production have increased very greatly, according to the Union for the Protection of

Germany's Chemical Industry, which has gathered statistics on the industry in conjunction with the Foreign Trade Control Office for Chemicals. Placing the cost level for January, 1922, at 100 the increases in costs by December were: Wages, 3,300; dollar exchange, 3,900; coal, 5,500; freight rates, 6,400. During this period chemical prices increased 4,030 above the rates in January. If reckoned in gold marks the exports of chemicals in 1922 amounted in value to about eight per cent. of Germany's total exports; textiles to 17 per cent; and steel products 20 per cent. These industries contributed greatly to Germany's wealth, but neither steel nor textiles had such a world-wide distribution as dyes and chemicals because they met the competition of English, French and American manufacturers. Before the war the dye industry in these countries was not developed sufficiently to compete in foreign trade, and was not able to even meet domestic requirements in many important lines. The situation has changed. Germany no longer holds her monopoly of the dye trade, and with increasing costs of production finds competition very keen in the world markets.

PRICES AND DEMAND

To attribute the recent slack demand for chemicals to high prices is to offer a plausible excuse in the place of a sound reason. Such half truths are dangerous and damaging; and if he had taken time to think out the causes and effects, the writer of the interesting weekly chemical column in one of our business newspapers would never have jumped so nimbly at the following conclusions:

Pro rata with productive capacity, business is poor compared with the first pre-war year, and to those whose memories are long enough 1913 was certainly nothing wonderful in the drug and chemical field. Almost every sort of reason is advanced by sellers of chemicals and drugs for the slump. These reasons range from the European situation to a criticism of banking policy in the United States. One factor which may have a great deal to do with the situation is generally overlooked, probably purposely, by both makers and dealers. It is the level of prices.

According to the index numbers showing the course of prices in the chemical and drug markets heavy chemicals and acids, taken as a group, are more than 65 per cent higher than they were in 1913. Dyestuffs are about 150 per cent above the pre-war levels. Crude drugs, fine chemicals and essential oils are at least 50 per cent above the 1913 price levels.

In order to check a healthy demand for crude materials prices have to be exorbitantly high, and accepting these "index numbers," it is easy to show that chemical prices have not reached any such danger point. An increase of 65 per cent in the selling price of chemicals compares rather well with increased cost of labor of over 90 per cent; of coal, 87 per cent; of freight rates, over 75 per cent. The Department of Labor figures

do not tell us how many more millions of dollars the chemical industry pays in taxes now than in 1913, or of the increased investments in land, buildings and equipment. Nevertheless taxes and capital charges must be paid long before profiteering can begin. It is, as a matter of fact, quite futile to compare back to pre-war as normal; and while it is certain that chemical prices will come lower in time, it will only be as a part of the general economic readjustment. Obviously chemical prices are comparatively lower today—and today is the only equitable basis of comparison—than many factors in chemical costs, and actually lower than most of the merchandise into which chemicals enter as raw materials of manufacture.

If high prices have at all affected the chemical markets of late it has been the high price of the manufactured goods sold over the counters of the retail stores. But effect has been negligible. The natural—and very sensible disinclination of all American industries to stock up on raw materials after their recent bitter experience in writing off inflated inventories has, of course, been the prime factor. This again is the reflection of the cautious buying by jobbers and retailers in all lines.

Such a slackening in chemical demand is, of course, largely psychological. No important group of chemical consumers are overstocked and all are simply discounting in advance the regular summer quietness. A psychological slackness of this kind, however, is to be infinitely preferred to a buying boom that would lead us to a real slackness caused by over-stocking, such as we had in 1921. There are, in fact, good reasons for viewing the balance of this year with every confidence. Lower chemical prices will stimulate sales only by helping in the general readjustment of all price levels, but price cutting does not bring a flood of chemical orders. Chemical bargains, offered at prices below the cost of replacement, will surely have to be paid for later and by the chemical buyers.

To charge the chemical manufacturers as a whole with running up prices to the exorbitant point where they are forcing their customers out of the market is manifestly unfair. To hold forth to chemical consumers the hope—so apt to be deferred—of lower chemical prices is obviously unkind. The tremendous over-production of chemicals that was built up during the war has been very substantially cut down since the collapse of the post-war boom two years ago. There have been numerous consolidations; scores of chemical producers have closed their plants; even among the surviving companies many plant-units have been dismantled. It is as misleading to continue to refer to war-time production as it is to compare with pre-war prices. Today is not 1920, nor 1918, nor 1914. The background of demand and supply, of costs and profits in this year makes an entirely new set of conditions governing prices.

ANOTHER IMPROVEMENT

"Why cannot I find aniline oil in your Oil Market?"

The superintendent of a big textile mill, who has

been a regular reader of *DRUG & CHEMICAL MARKETS* for two years, asked us this question recently, in all seriousness.

We in the drug and chemical fields are apt to forget that our best customers are often not familiar with our trade terms, classifications, and practices. Yet, plainly it is the business of all of us to serve the consuming industries. To do this better, we shall initiate with our next issue specialized market reports for four of the biggest consuming industries. In their own departments, we shall give specialized market comment and quotations on all the chemical, dye, drug and oil products which each industry uses.

Just a year ago we inaugurated "new style" quotations, with specifications on containers and quantities, arranged in more simple alphabetical classification. This was a quicker, better answer to the buyer's question: "What's the price?"

Last fall we published the *GUIDE-BOOK*, the first complete trade directory and buyers guide—a ready and reliable answer to the question: "Who sells it?"

These specialized consuming industry market reports, for which we have extended our market-reporting facilities, will give these buyers a prompt, expert market analysis on their drug and chemical raw materials. They will supplement ably and very directly the service we now render in our weekly price quotations and our annual directory of suppliers. They will still further increase the value of *DRUG & CHEMICAL MARKETS* to consumers and so add to its usefulness to producers. Better to serve the buyer means a greater service to the seller.

Many Men: Many Minds

In spite of the strides of the electrical industry, the gas industry employs five times as many men and 20 times as much capital as in 1890.—*San Francisco Journal*.

Professor John R. Commons, President of National Monetary Association says we are in an era of sharp price advances which will continue for some time unless definite steps are taken to check the movement. Federal Reserve banks he says use every means at their disposal to prevent excessive expansion of loans. The Monetary Association will hold a meeting within the next few weeks to discuss the situation.

We are on the eve of more fundamental changes than any yet seen in Britain, yet the average citizen discounts these predictions, overlooking two facts. The men and women who have no property constitute an overwhelming majority; and barely 10 per cent of British workers are engaged in the more stolid occupation of cultivating the soil. So no one will believe in the flood until it is upon us.—Lloyd George.

If we should have an advance in cost of labor out of proportion to the advance in materials, we should encourage inflation, a condition that might also be brought about by increase in price of materials due to present active demand. If inflation comes about through either or both of these causes, general business will be curtailed, though it is to be hoped that the lesson of 1920 will prevent very rapid rise and decline.—Pierre S. du Pont.

The Legal Status of Saccharin

The Manner in Which the "Coal-Tar Stigma" of Government Officials Has Been Combatted Since Its Discovery in 1879 by Remsen

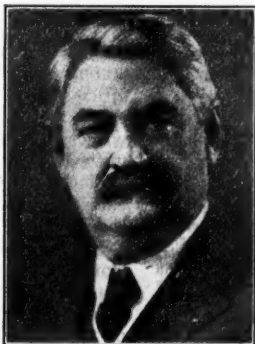
By JOHN F. QUEENY,
Chairman of the Board, Monsanto Chemical Works

SACCHARIN was one of the first important products to answer to the charge that it was a "coal-tar product", when that phrase carried a stigma almost equivalent to condemnation. The developments of later years, particularly during the recent war, have modified the popular conception of coal-tar until it is now looked upon as a storehouse of valuable and indispensable rather than of useless and harmful things. Such reversals of popular opinion or of administrative policy are not unprecedented. Sugar was looked upon with disfavor for 1,000 years and was even accused of contributing to the increasing prevalence of pulmonary tuberculosis. The use of hops by brewers was prohibited in England and later their non-use was subject to penalty. To one informed in such matters, therefore, it did not seem an unwarranted move when many states which had restricted or prohibited the use of saccharin, lifted the ban and actually encouraged its use during the Great War, and during the period of the sugar shortage which followed. Saccharin tablets or sugar containing sufficient saccharin to double its sweetness were used everywhere.

Saccharin is an American discovery credited to Professor Ira Remsen, Johns Hopkins University, Baltimore. Some five years later (in 1884) its manufacture was undertaken in Germany by Fahlberg, a former student of Remsen, who had taken out patents covering the manufacturing process. The cost at first was too high to permit of general use, but as a result of improved methods, manufacturing costs were materially reduced and saccharin could be sold on a basis much lower than sugar considering the difference in sweetening power. This rapidly increased the use of saccharin throughout Europe and forthwith aroused the opposition of the sugar interests. This was particularly true of the infant beet sugar industry, which at that time was receiving encouragement from the German Government, and especially of the agrarian group, which was perhaps the forerunner of our modern farm bloc. The saccharin-sugar controversy was thus originated.

Thorough-going experiments were made very early to determine whether saccharin would produce any untoward effects on the health of the user, and when the results showed that there was no ground, physiologically, for such claims, its harmlessness was frankly acknowledged. It was at this time that Dr. Fahlberg made the statement in a letter to the *Lancet* (London)—"If saccharin could be proved injurious to man, I would ask your readers to accept my assurance that I would not be responsible for the manufacture of another ounce." That this expression is likewise a true representation of the policy of the American saccharin interests was evidenced by the agreement of the largest manufacturer to abide by the conclusions of the Referee Board of Scientific Experts, whose report will be referred to later.

Arbitrary laws greatly restricting the use of saccharin became the rule practically throughout Europe. These laws were not attributed to any effort to guard the health of the people, but were admitted to be solely for



the benefit of the sugar industry, which was a source of large revenue to the governments and served as a means of employment of a considerable population. It was these arbitrary measures which were rescinded during the recent war, not only permitting but encouraging the use of saccharin as a substitute for sugar. The result was an unprecedented consumption of saccharin. In this connection, Dr. E. E. Slosson made the following statement in the January, 1923, issue of *The World's Work*: "Saccharin, a coal tar product, is several hundred times sweeter than sugar. It is altogether lacking in nutritive value, but dietary experiments on the largest conceivable scale, namely its daily use by many millions of

Europeans for several years during the sugar shortage in the late war, should remove the popular impression acquired during the pure food campaign, that it is injurious to health. This has been recently confirmed by M. Bonjean of the Superior Council of French Public Hygiene, who made a series of physiological experiments of long duration with men and dogs in all doses practically possible and found no derangement of health or digestion."

Saccharin Subject to Persecution

The opposition to saccharin in America, amounting at times practically to persecution, has followed a course differing from that taken in Europe. All coal-tar products were at first the object of vigorous action, and saccharin not only came within that classification, but competed with the natural product of an old and powerfully established industry. The first of a series of attacks all based mainly on a claim that it was, or might be harmful to the user, took the form of a prohibitory regulation issued by the Bureau of Chemistry. The ruling was manifestly so unjust that when brought to the attention of President Roosevelt, he referred the matter to a commission or board created for the arbitration of such controversies.

Food laws and regulatory measures were a comparatively new thing. And as history indicates, time and again, the tendency toward radicalism in such affairs is likely to be marked at the beginning. A conspicuous but not inconsistent error—considering the prevailing attitude—was the seizure of a car of cranberries by the Food Authorities. These were perfectly good berries, having the flavor and the properties for which they are known. But they contained benzoic acid, a natural constituent, but a product which could also be made from coal-tar. Benzoic acid was prohibited in essentially the same terms as saccharin.

The arbitration board known officially as the Referee Board of Scientific Experts, was under the chairmanship of Professor Remsen, and included in its membership only men of such professional standing as would inspire unreserved confidence in their conclusions. The saccharin problem was assigned for independent investigation to Professors Christian Herter, of Columbia University, and Otto Folin of Harvard. Each maintained his own staff of investigators. The alleged harmfulness of sac-

saccharin was studied from all angles. The results of the experiments which covered a period of five months, justified completely the claim as to the harmlessness of saccharin when used as a sweetener. The official report is clear on this point, but before the latter was available to the public, Dr. Wiley, then chief of the Bureau of Chemistry, prepared a new regulation again prohibiting the use of saccharin and under a curious misapprehension this regulation was approved by the Pure Food Board. When the discrepancy between the findings of the Referee Board and the Wiley regulation were pointed out a situation was created which necessitated referring the question again to the Referee Board. A brief but comprehensive summary, constituting a supplemental report, followed. Its diction is so nearly perfect, the statements so conservative, yet conclusive, that we shall quote it verbatim:

Report of Referee Board on Saccharin

1. "The findings of the Referee Board, based upon what would seem to be convincing, experimental evidence, are that small quantities of saccharin, up to 0.3 gram per day, are without deleterious or poisonous action, and are not injurious to health. This being so, it would seemingly follow that foods to which small quantities of saccharin have been added—in amounts insufficient to result in a daily intake of more than 0.3 gram—cannot be considered as adulterated, since foods so treated do not contain any added deleterious ingredient which may render the said food injurious to health.

Admitting that large quantities of saccharin—over 0.3 gram per day—taken for long periods of time may impair digestion, such evidence cannot consistently be accepted as an argument in favor of the view that smaller quantities must constitute a menace to health. It is often claimed that any substance having a deleterious effect on health when taken in large amount, must necessarily be injurious even when consumed in very small quantities, and that it is dangerous to differentiate on the basis of quantity. There is, however, no justification for such a view from a physiological standpoint. Common custom, for example, sanctions the free use of vinegar or dilute acetic acid as a preservative; yet it is well known that in larger quantities acetic acid is a dangerous substance. Common salt, while harmless when taken in small quantities, may become a serious menace to health if taken in larger quantities. The hydrochloric acid of the gastric juice is not only harmless but is essential for the welfare of the body, yet when its concentration is increased beyond a certain point, it becomes a poison. It is evident, therefore, that the decision as to whether a certain substance is or is not injurious to health must take into account the quantity of the substance that is involved. The Referee Board is compelled, on the basis of the experimental evidence, to hold to the view that the addition of small quantities of saccharin to food does not constitute an adulteration, since there is no evidence that small quantities of the substance are deleterious to the health of normal adults.

2. The addition of saccharin to foods, in large or small quantities, does not, so far as the findings of the Referee Board show, affect in any way the quality or strength of the food. This statement is not in any sense contradictory to, or lacking in harmony with the statement that the addition of saccharin to a food as a substitute for cane sugar is a substitution involving a reduction in the food value of the sweetened product and may thus result in a reduction in its quality. The simple addition of saccharin to a food cannot, in the opinion of the Referee Board be considered as an adulteration through any reduction in the strength or quality of the food, since no such effect follows its addition to the food. On the other hand, the substitution of saccharin for cane sugar, for example in any food product may result in a decided lowering of food value, and this must certainly be considered as an adulteration.

In the opinion of the Referee Board the use of saccharin in food in quantities that might constitute a menace to health is improbable, since its extreme sweetness would naturally limit its consumption by the individual to amounts below what might prove injurious (in harmony with the conclusions expressed in the original report of the Board). On the other hand, the possibility of substituting saccharin for sugar, thereby lowering the food value of the sweetened products, is a serious menace, and one that should be carefully safeguarded.

This official statement, concurred in unanimously, by as competent and conscientious a group of experts as could be gathered together, and following months of exhaustive experiments, must be accepted as convincing. It carries a true note of finality. No further defense of saccharin on the point of harmlessness should be required. It confirms the claim for saccharin as a condiment—to replace sugar where the latter is used for sweetening and not for its energy value.

Saccharin Misbranding Suit Dismissed

A policy of what might be termed inferential condemnation was long pursued by the Bureau of Chemistry, until in December, 1919, after the defendant had

forced the issue, a trial was held in the Federal Court on a charge of misbranding saccharin shipped in interstate commerce by Monsanto Chemical Works. The information was based on the statements that saccharin is: 1. Healthful. 2. A perfect sweetener. 3. Positively harmless. The court dismissed the first two counts and the jury disagreed on the third. This was a tacit victory for the defendant. The defendant requested an immediate retrial, but to date, after more than three years a retrial does not seem imminent. Instead there has been a reversion, in at least one instance, to the policy of insidious propaganda. The reference here is to the circulation by the Chief of the Bureau of Chemistry, among the various State and Municipal Food and Health officials, and others interested in such matters, of a summary of the testimony presented by the Government witnesses. This circular ignored the testimony submitted on behalf of the defendant, which as a matter of fact refuted the former entirely. This is but one example of the unfair attitude which has been shown the saccharin industry.

It is generally realized that the state laws and regulations as well as those of municipalities, referring to food-stuffs, are usually framed in accordance with the corresponding Federal Acts. Likewise, the executive officers of these subdivisions look to the heads of the Government bureaus for guidance. The possible evil effect of such unjust procedures as this latest one must therefore be realized. But regardless of the advantage which any executive or Bureau may be assumed to have through appeal to popular opinion in any action, just or unjust, it is interesting to note that wherever the issue has been brought before a court, saccharin has been vindicated. In Missouri, the Supreme Court held unconstitutional a law prohibiting the use of saccharin in non-alcoholic drinks. Notwithstanding an adverse ruling of the Food Department, the Illinois Courts sustained the use of saccharin as legal.

State Courts Hold Saccharin Legal

The following paragraph is quoted from the decision of the Appellate Division of the New York State Supreme Court in the case of a bottler who had been prosecuted on the ground that his soda water contained 1-100th of one per cent of saccharin: "The uncontroverted evidence shows that the use of soda water as a beverage containing this quantity of saccharin could not possibly be injurious to health, and that there is greater danger of injury to health from consuming too much sugar than from the consumption of saccharin in such a percentage. It also appears that the use of sugar in any form is injurious to people suffering from diabetes and some other diseases, while the use of saccharin by them to flavor food and render it palatable is prescribed by medical authorities." Various minor courts in several states have ruled in a similar manner, and in view of the fact that no appeal from their decisions has been taken, we must conclude that the prosecution was satisfied that the verdict reflected the evidence truthfully. Any possible use in excess of 0.3 gram, the minimum quantity covering by the report of the Referee Board, is very practically prevented by a disagreeable bitter taste when large quantities are used. Moreover, if it were desired to replace all of the sugar in one's diet with saccharin, the annual per capita consumption of 102 pounds would be equivalent to less than 0.26 gram of saccharin per day.

(Copyright, 1923, DRUG & CHEMICAL MARKETS)

A telegraphic code specially adapted for the chemical trade has been published by Selwyn, Ltd., Glasgow, Scotland. The code is issued in English, French and Spanish.

Linseed Oil Output Is Less Than Demand

United States Obligated To Import To Meet Increasing Consumption—This Country Used Eighty Million Gallons In 1922—Production of Flaxseed Declining—Argentina Only Country In Which Production Is Above Pre-War Average—Import and Consumption of Linseed Oil In the United States For Last Nine Years.

Consumption of linseed oil in the United States is increasing. During 1922, the year of maximum consumption, it was about 80,000,000 gallons. The production of linseed oil in the United States, net imports and consumption are estimated by National Bank of Commerce, New York, as follows (three ciphers omitted):

| Calendar year | Net imports Approximate | | |
|---------------|-------------------------|--------------------------|-------------------|
| | Factory Production | (reexports not included) | Total Consumption |
| 1912..... | 61,554 | *136 | 61,418 |
| 1914..... | 67,656 | 314 | 67,970 |
| 1916..... | 70,878 | *729 | 70,149 |
| 1917..... | 64,293 | *1,444 | 62,849 |
| 1918..... | 50,060 | *748 | 49,312 |
| 1919..... | 60,390 | 650 | 61,040 |
| 1920..... | 64,703 | 3,978 | 68,681 |
| 1921..... | 64,389 | 7,544 | 71,933 |
| 1922..... | 61,072 | 18,858 | 79,930 |

*Net exports.

Although the United States is the leading producer of linseed oil, annual production of flaxseed and yield of oil have not kept pace with increased consumption, especially since the war. This has been due partly to the decided decline within the last decade in domestic production of flaxseed. Scarcity of raw materials and high prices combined with the use of various substitutes brought about a low level in production of linseed oil in 1918. Production has since recovered and is now maintained practically at the pre-war level.

European and American imports and exports of linseed oil are shown in the following table:

| Country | (in thousands of gallons) | | | |
|----------------------|---------------------------|--------|--------|--------|
| | 1919 | 1920 | 1921 | 1922 |
| Imports | | | | |
| Netherlands | 351 | 285 | 283 | 8 |
| United Kingdom | 291 | 476 | 26 | 1,214 |
| Belgium | 2,703 | 1,039 | 1,494 | 170 |
| France | 6,085 | 3,551 | 4,182 | 1,208 |
| United States | 2,152 | 4,693 | 8,012 | 19,218 |
| Exports | | | | |
| Netherlands | 5,089 | 7,898 | 19,409 | 21,056 |
| United Kingdom | 22,401 | 14,462 | 16,502 | 17,785 |
| Belgium | 1,422 | 2,149 | 3,417 | 2,644 |
| France | 306 | 514 | 443 | 450 |
| United States | 1,509 | 716 | 469 | 366 |

The total world production of flaxseed in 1922, including the 1922-23 crops of Argentina and British India, was approximately 87,000,000 bushels, which was 25,000,000 bushels more than was produced in 1921 but 23,000,000 bushels less than average pre-war production. Argentina is the only country of importance in which present annual production of flaxseed is above the pre-war average. Production in Argentina during the crop year 1922-23 is officially estimated at about 47,000,000 bushels or 14,000,000 bushels less than the original official estimate. The yield from the Argentine crop planted in 1922 and harvested in 1923 is estimated at more than 50 per cent. above the average annual pre-war production and nearly 75 per cent. above the average during the five years 1914 to 1918.

Exports of flaxseed from the principal producing

countries during the last four years were as follows:

| Country | 1919 1920 1921 1922 | | | |
|---------------------|---------------------------|---------------|---------------|---------------|
| | (in thousands of bushels) | | | |
| Argentina | 33,677 | 39,782 | 49,684 | 36,744 |
| British India | 13,341 | 7,839 | 4,264 | 12,404 |
| Canada | 1,173 | 1,519 | 3,722 | 2,061 |
| Total | 48,191 | 49,140 | 57,670 | 51,209 |

United States, United Kingdom, Netherlands, Germany, France, Belgium and Italy are the principal consumers of linseed oil and linseed cake. It is much easier and less expensive to transport the seeds to the consuming markets than to crush in the country of origin and ship the oil and cake separately to the chief markets. These countries crush more than 95 per cent. of all flaxseed entering international commerce.

OPIUM CONFERENCE NOT IN AGREEMENT

The American delegation to the conference at Geneva, Switzerland, with the opium commission of the League of Nations presented the plan of the United States for control over the production of raw opium in such a way that no surplus will be available for non-medicinal or non-scientific purposes, and the delegates discussed the proposition during the latter part of last week. Stephen V. Porter and Bishop Brent presented the statement. Mr. Campbell, delegate for India, said he represented "one of the sinful nations" and denied India's refusal to forbid production of opium was based on reasons of revenue, but because the people of India wanted opium. He said Great Britain had tried to suppress opium in Burma and had given up the effort as unwise. He denied that the Hague convention bound the nations to prevent the making of opium.

The French delegate, M. Bourgeois, made a rather equivocal statement accepting the American proposals for restricting the use of opium for medicinal purposes, but not accepting the proposal to forbid production beyond these needs. The delegates for Portugal, Siam and Japan endorsed the whole American proposals.

Edwin L. Neville, State Department, attacked the nations who send delegates to the League meeting to make long speeches against the evils of opium, but without intentions of doing anything about it. He pointed to Switzerland which he said made no effort whatsoever to check the enormous distribution of cocaine from Basle, although on paper subscribing to the fight against narcotics.

STINNES MERGES GERMAN GAS WORKS

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany, May 19.—A holding company, a new development in the German chemical industry, has been formed by the German gas works, in which the Deutsche Girozentrale (Central Clearing Bank), the Deutsche Bank, Handelsgesellschaft (Commercial Bank), the two chemical firms, Rütgerswerke and the Gold und Silberscheideanstalt, and the Stinnes Company have taken part. The main object of the company, which includes all German gas works, is buying raw material and utilizing by-products on a large scale.

The entire coal requirements of the works are to be supplied by Stinnes, and the by-products will be produced by the Rütgerswerke and the Gold und Silberscheideanstalt. Capital of the company is 4,000 million marks.

INORGANIC CHEMICALS SHOW DECLINE

Products, Not Included in Special Groups, Valued at \$60,722,300 in 1921, Compared With \$84,530,600 in 1919
(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., May 30.—Establishments manufacturing inorganic chemicals that are not included in special chemical groups show a production aggregating in value \$60,722,300 in 1921, compared with \$84,530,600 in 1919 and \$36,520,200 in 1914—a decrease of 28 per cent—compared with 1919, but an increase of 66 per cent for the seven-year period, 1921-1914, according to the Census Bureau. The special chemical groups for which separate reports are being issued are as follows: (1) Acids; (2) Nitrogen compounds; (3) Sodium compounds; (4) Potash and potassium compounds; (5) Alums, aluminum, and compounds; (6) Bleaching compounds; (7) Coal-tar chemicals; (8) Plastics; (9) Compressed and liquefied gases; and (10) General chemicals—Organic.

Statistics of leading products for 1921, 1919 and 1914 are given in the following table:

| GENERAL CHEMICALS—INORGANIC (Not included in special groups) (Ton, 2,000 pounds) | | | | |
|------------------------------------------------------------------------------------------|--------------|--------------|--------------|-----|
| | 1921 | 1919 | 1914 | |
| Total value | \$60,722,300 | \$84,530,613 | \$36,520,217 | |
| Arsenic: | | | | |
| Arsenious and arsenic oxides (acids)— | | | | |
| Number of establishments... | 7 | 6 | | |
| Production—pounds | 11,046,400 | 2,622,389 | | |
| For sale—pounds | 9,399,800 | 1,076,000 | | (1) |
| Value | \$556,300 | \$108,236 | | |
| Arsenate of lead— | | | | |
| Number of establishments... | 11 | 12 | 11 | |
| Pounds | 9,229,700 | 11,465,788 | 8,641,856 | |
| Value | \$1,629,400 | \$2,090,841 | \$511,688 | |
| Other arsenic compounds..... | \$495,500 | \$1,290,793 | \$134,284 | |
| Barium: | | | | |
| Sulfate (blanc fixe)— | | | | |
| Number of establishments... | 11 | 10 | 11 | |
| Pounds | 7,375,700 | 13,635,789 | 18,278,000 | |
| Value | \$242,100 | \$256,100 | \$257,415 | |
| Other barium compounds | \$541,800 | \$1,427,403 | \$103,204 | |
| Bromine liquid: | | | | |
| Number of establishments... | 6 | 5 | | |
| Pounds | 187,400 | 211,555 | | (1) |
| Value | \$28,400 | \$92,047 | | |
| Calcium: | | | | |
| Acetate— | | | | |
| Number of establishments... | 61 | 86 | 78 | |
| Production—tons | 30,660 | 84,478 | 83,542 | |
| For sale—tons | 27,720 | 76,955 | 81,761 | |
| Value | \$737,000 | \$2,682,232 | \$2,138,909 | |
| Chloride— | | | | |
| Number of establishments... | 18 | 15 | 7 | |
| Tons | 78,990 | 74,699 | 44,752 | |
| Value | \$2,022,000 | \$1,043,301 | \$342,271 | |
| Phosphate— | | | | |
| Number of establishments... | 13 | 7 | 3 | |
| Tons | 23,150 | 22,135 | 12,096 | |
| Value | \$4,123,500 | \$4,727,364 | \$1,298,566 | |
| Hypochlorite— | | | | |
| Number of establishments... | 18 | | | |
| Tons | 28,600 | | | |
| Value | \$4,296,100 | \$15,609,157 | | (1) |
| Other calcium compounds..... | \$8,212,000 | | | |
| Chromium compounds other than chromates and bichromates of sodium and potassium.. | | | | |
| Value | \$520,300 | \$610,933 | | (1) |
| Cobalt compounds | | | | |
| Value | \$730,600 | \$217,689 | | (1) |
| Copper: | | | | |
| Sulfate (blue vitriol)— | | | | |
| Number of establishments... | 11 | 14 | 14 | |
| Pounds | 3,361,200 | 35,287,881 | 37,152,351 | |
| Value | \$216,800 | \$3,164,611 | \$1,598,944 | |
| Other copper salts and compounds | \$164,200 | \$667,767 | \$14,383 | |
| Iodine, resublimed and minor iodides: | | | | |
| Number of establishments... | 7 | 7 | | |
| Pounds | 73,700 | 105,731 | | (1) |
| Value | \$256,700 | \$438,002 | | |
| Iron: | | | | |
| Chloride, crystals and liquor— | | | | |
| Number of establishments... | 8 | 9 | | |
| Pounds | 1,475,300 | 1,894,982 | | (1) |
| Value | \$128,150 | \$136,431 | | |
| Sulfate (copperas)— | | | | |
| Number of establishments... | 23 | 32 | 29 | |
| Tons | 29,760 | 99,283 | 46,239 | |
| Value | \$524,700 | \$993,939 | \$352,772 | |

| | | | |
|------------------------------------------------------------------|-------------|--------------|--------------|
| Ferro-alloys (not blast-furnace products)— | | | |
| Number of establishments... | 20 | | |
| Tons | 48,500 | | |
| Value | \$8,835,400 | | |
| Other iron salts and compounds | \$766,400 | \$10,511,159 | \$3,698,475 |
| Mercury: | | | |
| Chloride, mercuric— | | | |
| Pounds | 239,300 | 437,015 | |
| Value | \$179,000 | \$748,774 | |
| Chloride, mercurous (calomel)— | | | |
| Pounds | 106,200 | 256,388 | |
| Value | \$97,700 | \$414,888 | |
| Other mercury compounds..... | \$221,100 | \$711,856 | |
| Sulfur, refined, and compounds, sulfur chloride, etc..... | | | |
| Value | \$1,697,500 | \$2,852,958 | \$1,141,100 |
| Zinc: | | | |
| Chloride— | | | |
| Number of establishments... | 14 | 19 | |
| Pounds | 75,291,500 | 74,089,063 | |
| Value | \$3,343,900 | \$4,349,096 | |
| Sulfate— | | | |
| Number of establishments... | 6 | 12 | |
| Pounds | 6,855,200 | 7,325,644 | |
| Value | \$305,000 | \$307,001 | |
| Other zinc compounds | \$452,900 | \$383,613 | |
| Other metals, compounds and salts | | | |
| Value | \$7,228,700 | \$6,607,574 | |
| Chemicals not specified..... | \$1,029,200 | \$4,699,195 | |
| | | | \$19,184,408 |

(1) Figures not available; included with unclassified.

U. S. ALUMINUM COMPETES WITH GERMANY

Hayangerfaldene Aluminum Works, western Norway, have been taken over by Aluminum Co. of America, owing to competition of German companies which are underselling the American company in Europe.

In many lines German-made aluminum supersedes copper—to the extent of 50 per cent in electric lines—in competition with the American trust and British Aluminum Corp.

A number of mills were erected during the war to supply Germany, after import of foreign material was cut off by the blockade.

At present three mills are in operation: The Erftwerk, previously owned by Stinnes, at Grevenbroich near Cologne, with an annual capacity of 15,000 metric tons, and the Vereinigte Aluminumwerk at Lauta combined with the Bitterfeld plants with capacity of 13,000 metric tons. The Inn-Werk will add another 10,000 tons. Price relation of aluminum to copper is much more favorable in Germany than in the United States, being about 120 to 100, where it is in America 150 to 100. Delivery of output at Erftwerk plant was cut off by occupation of the Ruhr and the shortage of aluminum in Germany became so acute that spot quotations on Berlin Metal Exchange were stopped.

Phelps Dodge Corp. produced from its own mines and subsidiaries 87,806, 603 pounds of copper, 8,996, 448 pounds of lead, 247,793 pounds of zinc, 1,870, 564 ounces of silver and 17,071 ounces of gold, last year. From purchased ores it produced 1,691,149 pounds of copper, 145,653 ounces of silver and 1,262 ounces of gold. During the year the company sold 151, 836,758 pounds of copper at an average price of 13.34 cents a pound.

Relief from customs penalties has been denied Albert Block & Sons, importers, who failed to deduct labor charges in making an entry, claiming that they believed they were non-dutiable. The Board ruled that due diligence was not used to ascertain whether labor charges were part of the market price.

Keystone Glue Co., Williamsport, Pa., will make improvements and extensions at its plant, including the construction of a new power plant, estimated to cost \$200,000, including machinery and equipment.

Little Falls Chemical Co., Little Falls, N. Y., will build a one-story addition to its plant 55 x 100 ft., estimated to cost \$35,000. Louis Vandermeer is treasurer.

Trade Notes and Personals

Burton T. Bush, Antoine Chiris Co., returned from Europe last week.

George K. Morrow has been elected president and director of American Cotton Oil Co., succeeding L. N. Hine, who becomes vice president.

Dr. George K. Burgess, new director of the Bureau of Standards, has been made chairman of the Federal Specification Board.

Robert C. Morris, New York, American agent before the German-American Mixed Claims Commission, has resigned at the insistent call of his personal and professional affairs.

Dr. Hans Goldschmidt, chemist and inventor and former president of Goldschmidt Thermit Co., now the Metal and Thermit Corp., 120 Broadway, died suddenly at Baden-Baden, Germany, according to a cablegram received by Metal and Thermit Corp., last week.

Dr. F. E. Breithut, who sailed for Europe last Saturday on the President Roosevelt, was a guest at the regular meeting and luncheon of the Intermediate and Dye Division of Synthetic Organic Chemical Manufacturers' Association, Chemists' Club, Thursday, May 24. Dr. Breithut will act as special trade commissioner for the United States Department of Commerce in Berlin.

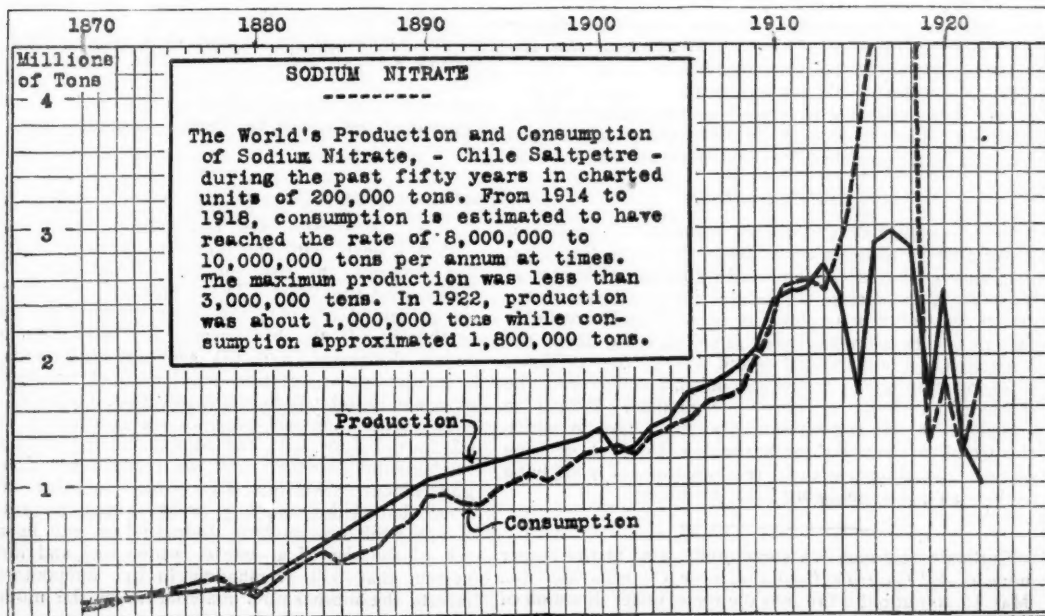
C. L. Speiden, secretary and assistant treasurer of Innis, Speiden & Co., New York, and secretary of the Isco Talc Co., Niagara Falls, N. Y., was married on May 19 to Miss Louise Hyde Valentine of Chappequa, N. Y. at St. John's Church, Pleasantville, N. Y. Mr. Speiden was graduated from Cornell in 1915, was a captain in the Third Division during the war, and saw service at Chateau Thierry and St. Mihiel. Since 1919, he has been active in the affairs of Innis, Speiden & Co. and the chemical industry.

DR. PIERCE HEADS PROPRIETARY ASS'N

E. K. Hyde and James Howe Vice-Presidents—Charles P. Tyrrell Re-elected Secretary-Treasurer—Proprietary Manufacturers Close Forty-first Annual Meeting in New York.

Dr. V. Mott Pierce, World's Dispensary Medical Association, Buffalo, N. Y., was elected president of the Proprietary Association at the closing session of the forty-first annual meeting at the Hotel Pennsylvania, New York, on May 24, to succeed Frank Blair, Household Products Co., New York, who has headed the organization for several years past. Mr. Blair refused to consider acceptance for another term in office, believing that the presidency should pass to some other member of the association this year. E. K. Hyde, Mentholatum Co., Buffalo, N. Y. was elected first vice-president, and James Howe, A. H. Lewis Medicine Co., St. Louis, Mo., second vice-president. Charles P. Tyrrell, Syracuse Medicine Co., Syracuse, N. Y., was again re-elected treasurer and secretary.

Among the speakers on the last day of the meeting was Henry Miles, a member of the Parliament of Canada and representing the Proprietary Association of the Dominion. He spoke upon the sales tax now in force in Canada and of recent legislation regulating the sale and manufacture of proprietary medicines. Henry R. Strong then spoke on substitution, referring to nationally advertised goods. Leo Weeks, D. Weeks & Co., Des Moines, Ia., defended the retail trade and laid the blame on the indifference of manufacturers toward the retailers generally. He urged the cultivation of "dealer confidence" by the proprietary manufacturers to secure wider distribution of their goods. In speaking on "Advertising vs. Sales", Dr. V. Mott Pierce, the new head of the organization, explained the method of mapping out an advertising and sales campaign for proprietary medicines. He showed by the use of charts that sales of proprietaries fluctuated directly in proportion to the general condition of business.



UNITED DRUG SHOWS GAIN THIS YEAR

United Drug Co. reports that for the four months ended with April, after depreciation, taxes, preferred dividends, etc., the net available for the common stock amounted to approximately \$1,000,000, equal to \$3 per share on the 352,354 shares outstanding at the close of the year, or at the annual rate of \$9 per share. Earnings are showing a rising average. In other words, the profit and loss surplus on the first of May totaled \$4,000,000 as against just under \$3,000,000 on the first of January, 1923. In a year and four months, the company has increased the profit and loss surplus about \$3,125,000, equal to about \$9 per share, which means that there is just that much more assets behind the common stock. At the close of 1921 the surplus was \$874,266. At current rate the surplus will be \$5,000,000 by the end of 1923, after all dividends.

Sales for the March quarter of about \$15,000,000 were the largest for any quarter in the history of the company and net was correspondingly as large. Earnings for the current quarter are running at similar volume. Since the first of Jan. 25 new stores have been opened, making a total of 258. On June 15, \$600,000 of the 20-yr., 8 per cent, notes will be paid off, reducing the amount outstanding to \$11,000,000.

ATLAS POWDER CO.'S SALES INCREASE

The proposal of Directors of Atlas Powder Co. to change the capital stock from 100,000 shares of common of \$100 a share par value to 500,000 shares of stock of no par value, is assured of ratification as the proxy committee has received proxies representing 83 per cent. of the voting common stock. A special meeting of stockholders has been called for June 13 to approve the change. Stockholders will receive three shares of new no par value stock for each share now held. There will be no change in the preferred stock.

Sales of Atlas Powder Co. for first quarter of 1923 were \$4,901,751, an increase of 40 per cent over corresponding quarter of 1922, when sales were \$3,570,833. Current business is running at an even higher rate, and indications are that 1923 sales will be in excess of \$20,000,000, compared with \$16,723,735 in 1922. It is expected that 1923 earnings will show a correspondingly large increase over 1922, when 16.83 per cent was reported on \$8,714,625 common stock outstanding. Stamford, Conn., plant is an important manufacturer of lacquers: Atlas' recently developed lacquer for fine wood furniture, which is claimed to have many advantages over the best varnishes for this purpose, has a wide sale.

In the case of drums for the shipment of acids and chemicals, the protests of de Lima Correa & Cortissoz, Inc., against the assessment of duty by the Collector at New York, the Board of U. S. General Appraisers reversed the Collector's rulings in part. The Board holds that in one case the Collector failed to bring about the inspection of the merchandise and to send the certificate of exportation to the American consul, and therefore the rights of the importer were not annulled. Failure to comply with the regulations in another case in which the Collector complied with the law led to a decision against the shippers, their reasons for not complying with the regulations being held insufficient.

Carbonic acid gas was successfully used at the Bitner mine of H. C. Frick Coal Co., near Connellsville, Pa., May 16, to put out a fire into the mine, under direction of Dr. W. A. Hamor, Mellon Institute, Pittsburgh.

Books of Trade Interest

DYES AND THEIR APPLICATION TO TEXTILE FABRICS. By A. J. Hall, B.Sc. (London). 116 pages. 8vo. Sir Isaac Pitman & Sons, London. 1923.

The writer has given a bird's-eye view of the dye and the dyeing industries in their development and as they exist to-day.

CHEMISTRY FOR BEGINNERS. By Marvin Dana, Ph.D., Author of a "Perfect Memory," etc. 215 pages. 8vo. Edward J. Clode, New York. 1923.

The foundations of chemical facts are presented in a form that is at once simple and convenient.

SYNTHETIC RESINS AND THEIR PLASTICS. By Carleton Ellis, Consulting Chemist, Author of Hydrogenation of Oils; Co-author, Gasoline and Other Motor Fuels, etc. 461 pages. 8vo. The Chemical Catalog Company, New York. 1923.

Obtaining resins from natural sources is becoming more uncertain day by day. This volume presents extensive data on a great variety of synthetic products of a resinous character, which may lend themselves to substitution in various places where natural resins are now employed.

STUDIES IN THE CARBONIZATION OF COAL. By Jerome J. Morgan and Roland P. Soule. Department of Chemical Engineering, Columbia University, 45 pages, pamphlet.

Composition of a commercial low-temperature tar and comparison with coke-oven and gas-works tars, are some of the things presented.

BROMOIL PRINTING AND BROMOIL TRANSFER. By Dr. Emil Mayer, president of the Vienna Club of Amateur Photographers. Translated by F. R. Fraprie, S.M., editor of American Photography. 191 pages. Seventh edition. 8vo. American Photographic Publishing Co., Boston. 1923.

Effect of the temperature of the bleaching solution as well as that of the water used for soaking the print, has been clearly brought out by the author. His method of introduction is logical and based on accepted educational principles.

ORGANIC SYNTHESSES. By James Bryant Conant, Harvard University, Cambridge, Mass. Volume II. 97 pages. 8vo. John Wiley & Sons, New York. 1922.

This volume is the second of a series giving satisfactory methods for the preparation of organic chemicals. The author states that if any chemist knows a better method for the preparation of any of the compounds considered, he would be pleased to receive such information.

MODERN INDUSTRIALISM. By Frank L. McVey, President of the University of Kentucky. Second edition. 8vo., 349 pages. D. Appleton, New York, 1923.

Part 1 deals with the industrial growth of England and America, the rise and fall of Germany, and the Orient and the West. The causes of the World war are presented as: (1) the development of national sentiment, (2) the brusqueness of the Austro-Hungarian diplomacy, and (3) economic influences. Part 2 presents transportation problems and manufacturing of goods as related to standardization. Forms of industrial organization and taxation are thoroughly presented. Part 3 deals with the administration of business, fundamental problems and the reasons for advocating government ownership. The work concludes with the hope that within another twenty years the author of a new book on modern industrialism will be able to tell of the rise of a world economic and industrial system that will overshadow in its humanitarian interests the more sordid materialism of the modern industrial nations.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending May 26

| | Bid | Asked | | Bid | Asked |
|-----------------------------|------|-------|----------------------------|------|-------|
| Air Reduction | 64 | 65½ | Heyden Chem. | 17½ | 2 |
| *Allied Chem. & D. 73 | 73½ | | Hooker Electro. | 55 | 65 |
| *Allied Ch. & D., pf. 108½ | 110 | | Hooker Electro. pf. 60 | 60 | 70 |
| *Am. Ag. Ch. | 20½ | | *Household Products 33½ | 33½ | |
| *Am. Ag. Ch., pf. | 43½ | | *Int. Agricult. | 5½ | 6 |
| *Am. Chicle 8½ | 8½ | | *Int. Agricult., pf. | 17½ | 18 |
| *Am. Chicle, pf. 36¼ | 40 | | *Int. Nickel 13½ | 13½ | 13½ |
| *Am. Cot. Oil. 8½ | 9½ | | *Int. Nickel, pf. 78¼ | 79 | |
| *Am. Cot. Oil, pf. 16¼ | 19¼ | | *Int. Salt 78¼ | 95 | |
| *Am. Cyan. 48 | 51 | | *Mathieson Alk. 46¼ | 47 | |
| *Am. Druggist S. 5½ | 5¼ | | Mercer & Co., pf. 86 | 87 | |
| Am. Glue 82 | 83 | | Merrimac 96 | | |
| Am. Glue, pf. 124 | 126½ | | Mulford Co. 29 | 34 | |
| *Am. Linseed 23¼ | 24½ | | Mutual Co. 150 | .. | |
| *Am. Linseed, pf. 44 | 45½ | | *National Lead 117¼ | 117½ | |
| *Am. Malt 12 | 13 | | *National Lead, pf. 100 | 112½ | |
| *Am. Zinc 12 | 13½ | | N. J. Zinc 158 | 162 | |
| *Am. Zinc, pf. 45 | 46 | | Niag. A., pf. 96 | 100 | |
| *Atlas Powder 163 | 170 | | Parke, Davis & Co. 80 | .. | |
| *Atlas Powd., pf. 85½ | 90 | | Penn. Salt 88¼ | 92½ | |
| By. Prod. Co. 67 | 72 | | *People's Gas, Chi. 92¼ | 92½ | |
| Carborundum 135 | 135½ | | Procter & Gamble. 124 | 128 | |
| Carborundum, pf. 115½ | 116 | | Procter & Gam., pf. 102 | 106 | |
| Casolin Co. 59 | 66 | | Royal Bak. Co. 125 | 134 | |
| Celluloid Co., pf. 87 | 92 | | Royal Bak. Co., pf. 98 | 99½ | |
| Ches. Mfg. 237 | 243 | | Sherwin-Williams .. 28¼ | .. | |
| Ches. Mfg., pf. 113 | 116 | | Sherwin-W., pf. 101 | 102 | |
| Com'l Solv. A. 28 | 30 | | Stand. Ch. 90 | 100 | |
| Do B. 18 | 20 | | Swan & Finch. 30 | 32 | |
| *Corn Products 130½ | 130½ | | *Tenn. C. & Chem. 10¼ | 10½ | |
| *Corn Products, pf. 116½ | 118 | | *Tex. Gulf. Sul. 61¼ | 62 | |
| *Davison Chem. 25½ | 26 | | Union Carbide 58 | 59½ | |
| Dow Chem., non par. 40½ | .. | | Union Sulphur 80½ | 81½ | |
| Dow Ch., pf. 96 | .. | | *Un. Drug 90½ | 91½ | |
| Du Pont de Nem. 128¼ | 128½ | | *Un. Drug, 1st pf. 46¼ | 47¼ | |
| *Du P't de Nem. Ds. 88 | 86 | | *Un. Dyewood 130 | 150 | |
| Eastman Kodak 109 | 110 | | *Un. Dyewood, pf. 112 | .. | |
| Eastman Kodak, pf. 110 | .. | | Un. Gas Imp. 50 | .. | |
| *Freeport Tex., Sul. 14¼ | 14½ | | Un. Gas Imp., pf. 56 | .. | |
| Freept. Tex. Sul., pf. 91 | 93 | | U. S. Gypsum. 65 | 56¼ | |
| *Grasselli 130 | 140 | | *U. S. Indus. Al. 56¼ | 56 | |
| *Grasselli, pf. 102 | 105 | | *U. S. Indus. Al., pf. 96 | 99 | |
| Hercules Powd. 106 | 109 | | *Va.-Car. Ch. 11¼ | 12 | |
| Hercules Powd., pf. 105 | 109 | | *Va.-Car. Ch., pf. 30½ | 31 | |
| | | | *V. Vivaudou 19¼ | 19½ | |

*Listed on New York Stock Exchange

Virginia Iron, Coal and Coke Co. has resumed dividend payments on common stock by declaring a disbursement equal to 2 per cent. on each share, payable July 2, to stockholders of record June 16. This is the first dividend paid by the company since January, 1922, when a semi-annual disbursement of 3 per cent. was made. No period was set on yesterday's dividend. In addition, the regular semi-annual dividend of 2½ per cent. was declared on the preferred stock payable as of the same dates as the common dividend.

Among the judgments filed during the week were: City of New York against Milano Pharmacal Co., for \$102.46; Toch Bros., Inc., against Jack L. Castle, for \$106.72; Benze Perfection Sample Card Co., Inc., against Peel Chemical Corp., for \$362.80; City of New York against Paul Chemical Co., Inc., for \$188.38.

V. Vivaudou, Inc., reports increased sales for the first quarter of 1923. Earnings at present are around \$5 a share compared with slightly less than \$2 last year. It is expected that the dividends will be increased to \$3 before the end of the year.

Voting trust certificates of the Columbian Carbon Co., representing 402,131 shares of capital stock, have been admitted to the trading list of the New York Stock Exchange.

The Union Carbide & Carbon Co. has declared a regular quarterly dividend of \$1 a share, payable July 2 to holders of record of June 7.

National Lead has declared a quarterly 2 per cent common dividend, payable June 30 to stock of record June 15.

MATHIESON ALKALI EARNINGS INCREASE

It is predicted that Mathieson Alkali Works will earn the \$7 dividend on the preferred stock seven to eight times over says "Financial America". As a matter of fact, Mathieson could earn the full year's preferred dividend requirement in six or seven weeks. On its regular lines the company showed \$2.85 a share earned for the common stock in the first quarter, or about \$2.50 after taxes. It is expected that common earnings this year will amount to \$12 a share, against \$6.14 shown in 1922. In 1921 a deficit of \$242,000 was reported.

Mathieson has several new lines which it is about to place on the market, the sale of which will increase earnings considerably. One of these is synthetic ammonia, a practical solution for the manufacture of which has been worked out by the company's chemists. Mathieson now owns the exclusive North American rights for the manufacture and sale of liquid chlorine for use in oil refining, having purchased the production rights from the British government.

Even with heavy depreciation charges, Mathieson is increasing its net current asset position about \$150,000 a month. At the close of 1922 net current assets were in the ratio of three to one compared with current liabilities. Net working capital was \$1,639,000 as of Dec. 31. There is no funded debt and the company is free of bank loans. The only obligation ahead of the common is a small amount of preferred stock the dividends on which take about \$200,000 a year. Resumption of common dividends is to be expected when the accrual on the preferred has been paid off.

CASEIN COMPANY EARNS \$572,839

The consolidated income account of Casein Co. of America for 1922 shows balance available for common dividends \$321,923 equal to 5.85 per cent on the \$5,492,000 common stock outstanding. This compares with a deficit of \$167,369, in 1921. On Dec. 31, 1922 the profit and loss surplus stood at \$1,102,808, as compared with \$777,727 on Dec. 31, 1921. Net earnings were \$572,839 compared with \$73,592 in 1921.

George J. Gillespie, president, in his remarks to the stockholders says that the various factories of the company have been kept in first class condition and are in readiness to meet any manufacturing requirement. Mr. Gillespie further says that the usual quarterly dividends were continued during the year, but because of the excellent earnings and the promise of their continuance an extra dividend of 1 per cent was declared in February of the present year.

Callahan Zinc-Lead Co. reports for the quarter ended March 31, 1923, gross income of \$363,107 and surplus income of \$48,339. During that period the company shipped 6,774,383 pounds of zinc and 4,214,183 pounds of copper. John Borg, President, in a statement to stockholders said the falling off in shipments was due primarily to lower mill recoveries, caused by insufficient supplies of water during severe Winter months.

Harrington Glue Co., New York, has filed notice of increase in capital to \$25,000, for improvements at its plant.

New Incorporations

Concentration Warehouse Corp., Brooklyn, N. Y., \$50,000. Make chemicals. A. Tetler, E. Bagarozzy, S. H. Fuchs. Attorney, E. M. Baar, 51 Chambers st., New York.

Pinkham Chemical Corp., Brooklyn, N. Y., 100 shares preferred stock, \$100 each; 100 common, no par value; active capital \$5,000. S. M. Louis, M. M. Seigel, A. E. Rosenberg. Attorney, G. H. Curtis, Jr., 51 Chambers st., New York.

Lakresen Chemical Works, Wilmington, Del., \$300,000. Colonial Charter Co. Gordon Chemical Co., Inc., Foxboro, Del., \$250,000.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 1376

COPPER SULFATE PRICES ARE ON DECLINE

Imported Material Weak—Arsenic Lower on Spot—Tin Oxide Down—Foreign Caustic Potash Still Slow—Glauber's Salts Stronger—Imported Chemicals Weak.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| | |
|-----------------------------------------------|------------------------------------------------------|
| Advanced | |
| Glauber's Salts, tech., 5c 100lbs. | |
| Declined | |
| Arsenic, $\frac{1}{4}$ c lb. | Potash, Caustic, $\frac{1}{4}$ c lb. |
| Ammonium Chloride, white, $\frac{1}{4}$ c lb. | Potassium Carbonate, all grades, $\frac{1}{4}$ c lb. |
| Copper Sulfate, 10c per 100lbs. | Tin Oxide, 2c lb. |

| | Trend of the Market | | | | | |
|------------------------------------|----------------------|----------------------|--------------------|----------------------|----------------------|--------------------|
| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
| Acetic Acid, Glacial....lb. | \$1.23 $\frac{1}{4}$ | \$1.23 $\frac{1}{4}$ | \$1.12 | \$0.88 $\frac{1}{2}$ | \$1.19 $\frac{1}{4}$ | \$0.7 |
| Sulfuric Acid, 66 deg. ton | 15.00 | 15.00 | 15.00 | 14.00 | \$5.00 | 20.00 |
| Bleaching Powder, | | | | | | |
| Works100 lbs. | 1.80 | 1.90 | 1.90 | 1.60 | 9.50 | 1.50 |
| Copper Sulfate100 lbs. | 5.90 | 6.00 | 6.25 | 5.95 | 20.00 | 4.50 |
| Potash Causticlb. | .073 $\frac{1}{4}$ | .08 | .083 $\frac{1}{4}$ | .06 | .87 | .08 |
| Saltpetre, cryst.lb. | .073 $\frac{1}{4}$ | .073 $\frac{1}{4}$ | .07 | .073 $\frac{1}{4}$ | .35 $\frac{1}{2}$ | .04 $\frac{1}{2}$ |
| Soda Ash, 58 p.c.100 lbs. | 1.80 | 1.80 | 1.80 | 1.80 | 3.50 | .60 |
| Caustic Soda, 76 p.c.100 lbs. | 3.55 | 3.55 | 3.55 | 3.85 | 9.50 | 1.42 |
| Potassium Bichromate ..lb. | .113 $\frac{1}{4}$ | .113 $\frac{1}{4}$ | .11 | .10 | .65 | .063 $\frac{1}{4}$ |
| Average | 3.156 | 3.177 | 3.199 | 3.046 | 11.06 | 3.14 |

Light trading is still noticeable in the market though in some quarters business is reported better than at the early part of the month. Imported chemicals have been hardest hit during the present slump in buying, and large quantities of material purchased in expectation of a good market have been sacrificed, in many cases, below import costs in order to realize on them quickly. Manufacturers, however, continue to report satisfactory business, though a falling off in prompt business has been noticeable. While production costs have been increasing steadily, the record set up in buying has had a tendency to reduce prices. Metals have declined and consequently reductions have followed in metallic salts. Copper sulfate is weakening and lower prices are in effect. Tin oxide has been reduced. Arsenic trading is quiet and prices are lower on spot. Calcium arsenate is not moving at the lower prices. Caustic potash and carbonate are down. Ammonium chloride is weak. Prussiates continue quiet and prices unsettled. Sodium sulfide is moving well. Glauber's salts are firm at higher levels. Carbon tetrachloride is firmer. Sodium cyanide is moving in good quantities. Bichromates are firm. Caustic soda and soda ash have shown improvement.

Acid, Acetic—Demand continues along steady lines and the volume of business is reported good. Prices are holding steady at the recent schedule of \$3.38 for 28% in carlots of bbls. up to \$12.78@ \$13.53 for glacial.

Acid, Muriatic—New business is reported somewhat slow but large consumers are taking contract deliveries regularly. Prices are steady with 18° named at 90c@ \$1.00 in tanks at works; 20° is held at \$1.00@ \$1.50 depending upon the quantity and container; 22° at \$1.75@ \$2.00.

Acid, Oxalic—In good demand with prices firm at 13 $\frac{1}{2}$ c@14clb. at works. Imported is held at 13 $\frac{1}{4}$ clb.

Acid, Sulfuric—Producers have only small stocks from which to draw, and contract consumers are taking large quantities regularly. Prices are firm at \$15@ \$16 ton in tanks at works for 66° and \$9@ \$10.50 for 60°.

Oleum continues in very small supply and \$18 ton is becoming increasingly difficult to do. The range is from \$18@ \$20 ton.

Acetone—Supplies are limited to small quantities while demand is reported steady. Makers continue to quote 25c@ 25 $\frac{1}{2}$ c lb. at works.

Alums—Routine demand for ammonia grades at unchanged prices of \$3.50@ \$3.65 at works. Imported potash selling occasionally at 3c@ 3 $\frac{1}{4}$ clb. Chrome named at 5 $\frac{1}{2}$ c@ 5 $\frac{3}{4}$ clb.

Ammonium Chloride—Market is easier with stocks ample and demand somewhat inactive. Some sellers are quoting down to 6 $\frac{1}{4}$ clb. with range from 6 $\frac{1}{4}$ c@ 6 $\frac{3}{4}$ c lb.

Ammonium Sulfate—Most consumers have been supplied for the season, and business is looking toward next year's consumption. Contracts are reported at \$3.00 @ \$3.15 at works; bulk at works named at \$3.20@ \$3.35: f.a.s. \$3.50@ \$3.60.

Arsenic—Imports from Japan have been increasing and 1626 cases, 203 bbls. arrived at N. Y. last week. The market is quiet and easy, with prices named at 14 $\frac{1}{4}$ c@ 14 $\frac{1}{2}$ c lb. Futures over the second half of the year range from 10 $\frac{1}{2}$ c@ 13clb.

Barium Compounds—Stocks of carbonates are not large but demand is lacking and prices are holding at \$68@ \$70 for domestic at works; imported named at \$70 ton. The chloride is quiet with imported material selling at \$80@ \$85 ton while domestic makers quote \$88@ \$90 ton at works. Nitrate, 8c@ 8 $\frac{1}{4}$ clb.

Bleaching Powder—The regular seasonal turnover is taking place when consumers try to reduce their stocks in order not to carry them through the hot weather. Makers are adjusting production to conform to new conditions. Most consumers are being supplied on contract and new contract business is quiet. Contracts named at \$1.90@ \$2.00 at works. Spot prices held at \$2.50@ \$2.75.

Calcium Acetate—Producers continue to quote 4clb. in carlots, works.

Copper Sulfate—Metal prices have been declining steadily and domestic producers of sulfate have been reducing their prices correspondingly. Most agricultural sections have been covered and business from other industries is reported good. Domestic prices range from \$5.70@ \$5.80 on spot while imported goods are quoted at 5 $\frac{1}{4}$ c@ 5 $\frac{1}{2}$ clb. and sales of distressed material have been made at 5clb.

Copperas—Producers continue to quote bulk material at \$20@ \$21 ton at works. Supplies are reported small and some producers are unable to offer for prompt delivery. Bbls, \$25 ton; bags, \$23 ton. Powdered, \$1.90 @ \$2.00 per 100lbs.

Glauber's Salts—Supplies are somewhat limited and production will not increase during the summer. Prices are firmer with technical selling at \$1.30@ \$1.45 in carlots of bbls. at works; bags, \$1.15@ \$1.25. U.S.P. from \$1.40@ \$1.75 as to quantity. Imported slow at 90c@ \$1.00.

Lithopone—Most makers are sold well in advance and have none to offer for prompt delivery. Prices are

holding steady at 7c@8clb. for domestic material. Imported, 6c@6½clb.

Potash, Caustic—The market for imported goods continues weak, while shipment prices are reported lower. Spot, 88-92 per cent quoted at a range from 7½c@8clb. depending upon seller and quantity. Domestic material is still at 9c@9½clb. and in good demand. 85%, 6½c@6¾clb; hydrated, 7½c@7¾clb. 90-95%, 7c@7¼clb; 96-98%, 7½c@7¾clb.

Potassium Carbonate—Continues quiet and importers are quoting lower prices for all grades. Calcined, 80-

Potassium Bichromate—Higher costs of production, due to labor difficulties, have affected some producers. Prices are therefore firmer at recent levels of 11¼c@11½clb. at works. Demand is reported active.

Potassium Prussiate—Market continues quiet with the yellow at 36c@36½clb. and red 70c@74clb.

Soda Ash—Makers continue to quote contracts at \$1.20, basis 48%, in carlots of bags at works. Less carlot business on spot at \$1.75@\$2.00, bags.

Soda Caustic—Inquiry is reported slightly better for new business, while shipments on old contracts are proceeding regularly. Export business continues quiet and prices are a little easier at \$3.35. Spot business is being done at \$3.40@\$3.70 according to brand and quantity. Contract prices steady at \$2.50, basis 60%, at works.

Sodium Cyanide—Demand is good and some large sales have been put through at 21¾clb. for imported 128 per cent. Domestic is steady at 23clb.

Sodium Prussiate—Supplies are plentiful and competition for passing business down to 16½c@16¾clb. imported. Domestic material at 17½clb. at works.

Sodium Sulfide—Domestic material is in good demand and most producers are well sold. Imported has been quiet and is plentiful at 3¾c@4clb. for solid and 4c@4¼clb. for broken. Crystals named at 2¾c@2½clb.

Tin Oxide—Lower metal prices have prompted makers to reduce prices to a basis of 48clb.

CHEMICAL RESERVE OFFICERS LISTED

Charles H. MacDowell, Armour Fertilizer Works, Chicago, and other chemical manufacturers, have been in consultation with officials of the War Department, recently in regard to plans for industrial preparedness. The nitrate division of the War Department is preparing a list of men in the chemical industry, who are familiar with nitrate problems, to serve as reserve officers. A similar list of reserve officers for the Chemical Warfare Service and a list of explosive experts for reserve service with the Ordnance Department, are contemplated. At recent conferences, creosote, dyes, glass, mica, non-ferrous metals, and paints were discussed.

A. P. Cobb, vice president, New Jersey Zinc Co. is optimistic regarding the future of zinc. Demand for zinc oxide is holding up well. There is a prospect for slightly lower consumption in the rubber trade, but otherwise the outlook is good for continued demand. There is usually a let-up during the summer, but Mr. Cobb says seasonal variations have been lost sight of for the last year or two.

Hearing of the suit brought by Herman A. Metz, New York, against Francis P. Garvan, former Alien property custodian, over a bill for accountants who examined the books of the Farbwerke-Hoechst Co., has been postponed indefinitely by the U. S. Supreme Court.

RUSH FOR CALCIUM ARSENATE EXPECTED

A good buying movement by planters in the South is expected during June. Only large users of calcium arsenate have been able to anticipate their wants by putting in stocks in the Spring. There has been very little buying in the South and dealers are stocked to capacity and are unable to accept further shipments until stocks have started to move. Small consumers are unable to purchase ahead to any extent and must wait until they actually require arsenate to fight the boll weevil.

Planting in the South has been delayed by a cold Spring and rainy weather. In some cases planters have had to make two or three plantings. These conditions have made the season three to four weeks behind and consequently there has been no occasion to use calcium arsenate, though this is normally the time when insecticides are applied to plants. When the boll weevil comes forth, there will be a rush for insecticides and the stocks of calcium arsenate which are now a burden to some dealers will be in demand. Manufacturers have sold their production well in advance, but dealers have yet to dispose of their stocks and they are the ones who are having anxious moments. The banks throughout the South are interested. The planters will have no difficulty in obtaining funds.

GERMANS CUT POTASH PRICES

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany, May 19.—The potash industry is depressed. Recent price reductions have not improved the situation and a number of factories are storing their output, and working four days a week only. The Deutsche Kaliwerke reports that sales in April were only 25 per cent of those during April last year.

The Potash Syndicate is selling to the farmers 50,000 tons of potash fertilizers at a price 15 per cent below the current quotation. The Minister of Transport has further granted a 10 per cent reduction in freight rates for potash for May and June. The syndicate expects a greater export demand soon, partly on account of the increase of the potash content of mixed fertilizers in the United States.

Roessler & Hasslach Chemical Co., in a price list dated May 15, says in part regarding market conditions: "Activities for the past month have shown a normal increase over the same period last year. The hectic desire to secure all material in sight has apparently been curbed and prices are creeping back to a more normal basis. A conservative policy on raw material and an avoidance of frantic endeavors to sell irrespective of cost will permit the "ship of business" to continue going forward on an even keel for what should be many months of progress and profit. Stocks of materials are again becoming more plentiful."

Insecticide and Disinfectant Manufacturers Association will hold its ninth mid-summer meeting at the hotel Statler, Detroit, June 11 to 13 inclusive. Business sessions will be held in the forenoon each day, with the afternoon devoted to the inspection of industrial plants. Mayor Doremus of Detroit will make the address of welcome. On Wednesday afternoon and evening, June 13, the members will make a trip on the Detroit River and Lake St. Clair. C. C. Baird, Holbrook, Mass., is president.

Edward Mallinckrodt, St. Louis, has given \$500,000 to Harvard University for a chemical laboratory. His son was a member of the class of 1900.

The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 1380

NAPHTHALENE DEMAND IS FALLING OFF

Prices Have Easier Tone—Small Offerings Preventing Phenol Slump—Business in Intermediates Quiet—Dyestuff Movement Slow.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| | |
|-------------------------------|------------------------------|
| Advanced | |
| Xylidine, 3c lb. | |
| Declined | |
| Para-nitrophenol, 5c lb. | Phthalic, Anhydride, 3c lb. |
| Meta-phenylenediamine, 5c lb. | Phenol, 3c lb. |
| Meta-toluenediamine, 5c lb. | Naphthalene, flake, 1/2c lb. |

Trend of the Market

| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
|-----------------------------|---------|-----------|------------|-----------|----------|---------|
| Benzene, puregal. | \$.30 | \$.30 | \$.30 | \$.29 | \$1.10 | \$.26 |
| Naphthalene flakelb. | .08 1/2 | .09 | .09 1/2 | .07 | .16 | .03 |
| Phenollb. | .50 | .53 | .60 | .12 | 1.50 | .08 |
| Xylene, 2-deg.gal. | 1.00 | 1.00 | 1.00 | .45 | .. | .. |
| Toluene, puregal. | .30 | .30 | .30 | .30 | .. | .. |
| Aniline Oillb. | .16 | .16 | .16 | .14 | 1.40 | .10 1/2 |
| Benzaldehydelb. | .75 | .75 | .70 | .65 | .. | .. |
| Betanaphthol, dist.lb. | .24 | .24 | .24 | .23 | 1.50 | .08 |
| Paranitroanilinelb. | .74 | .74 | .74 | .75 | 1.85 | .18 |
| Average | 0.440 | 0.443 | 0.449 | 0.338 | 1.25 | 1.67 |

Buyers continue to hold aloof and the market presents a rather dull aspect. Consumers are indifferent to selling efforts and are proceeding cautiously, using up stocks on hand and buying only as required for immediate needs. Prices of coal-tar crudes are easier, though stocks are only moderate, while intermediates are holding steady. Phenol is weakening gradually and some surprise is expressed that prices have held up so well in the absence of demand and reports of synthetic phenol soon to be available. Stocks are small however, and strong holders feel that it will be some time before any quantity will be on the market. Naphthalene is receding from the peak price of 9 1/2c lb., due to lack of demand and increased supplies. Cresylic acid can be had at lower prices than those which have recently prevailed. A quiet period in dyestuffs is reflected in a smaller demand for intermediates. H-acid is scarce and in most demand. Beta-naphthol is easy in the resale market. Xylidine is higher. Benzene is lower.

Coal Tar Crudes

Benzene—Supplies are reported plentiful and demand is improving steadily. With steel mills operating at capacity production has been on the increase and no shortage of supplies is looked for, though large quantities are going into motor fuel consumption. Prices are easier in most directions with 90 per cent at 25c@27c per gallon and the pure at 27c@30c in tanks. Drums range from 30c@35c gal.

Cresylic Acid—Imports have been increasing and supplies on the market appear to be more plentiful though prices are still too high for most consumers. Demand has not been very active and prices are being shaded slightly. A carlot is reported to have sold at \$1.15 per gallon for pale 97-99 per cent while smaller quantities range up to \$1.30. Imports at New York last week, 423 drums.

Naphthalene—Buyers have been showing little interest and offerings of 8 1/2c lb. in carlot quantity failed to bring out any buyers of flake. Dyestuff naphthalene has been less active and prices range from 7c @ 8c lb. for the chipped. Crude naphthalene is easier abroad and 4,121 bags arrived in New York last week.

Phenol—The market is down a few cents as some sellers decide to move the stocks on hand. Small lots have been sold at 50c lb. and a few resale lots lower but strong holders are still holding to 52c @ 55c lb. Large lots are bringing higher prices than the smaller ones. Demand has been quiet and consumers appear to be waiting the arrival of cheaper material on the market.

Toluene—Production has been increasing and first hands are in a better position to offer supplies than for some time. Quotations are unchanged at 30c @ 35c per gallon.

Xylene—Supplies continue small but some of the important consumers are receiving fair quantities. Small lots are offered in the market at \$1.00 per gallon for 2 degree material. Makers have none to offer to others than regular consumers.

Intermediates

Acid, Benzoic—Supplies are very small and makers are having difficulty in meeting the increased demand. Technical is holding steady at 70c @ 75c lb. and the U. S. P. at 72c @ 77c lb.

Acid, Cleve's—Routine movement with prices in makers' hands at \$1.00 @ \$1.10 as to quantity.

Acid, Gamma—Buying has not been active but demand is reported along steady lines at unchanged prices of \$1.70 @ \$1.80 lb.

Acid, H—While general demand has fallen off slightly demand is still strong enough to keep makers' production from accumulating and little resale material on the market. Prices are holding at 80c @ 85c lb.

Acid, Neville & Winther's—Demand is routine in character and prices are named at \$1.00 lb.

Acid, Salicylic—Technical is moving slowly though prices are lower than have obtained during the first few months of the year. Technical, 38c @ 43c lb. U. S. P., 40c @ 50c lb.

Alpha-naphthylamine—Prices are holding up at 35c @ 37c lb. in ton lots while demand has been fairly good.

Aniline Oil—Little change in the situation with demand along steady lines and prices steady at 16c @ 17c lb. depending upon the quantity.

Benzidine—Demand has quieted down and buyers are only taking small quantities as required. The base is named at 84c @ 86c lb.

Beta-naphthol—Quieted down to routine demand and little interest on the part of consumers. Makers continue to quote ton lots at 23c @ 24c lb. while resale lots are offered at 21c lb. with no buyers.

Benzaldehyde—Demand for basic colors is less insistent and the call for benzaldehyde has quieted down. Stocks are not large, however, and makers continue to quote 75c @ 80c lb.

Dimethylaniline—Slowing up along with other items but makers are still naming 41c @ 43c lb. as to quantity.

Dinitrobenzene—Buying is reported satisfactory and in fairly good volume at 19 1/2c @ 20c lb.

Ortho-toluidine—Consumption outside of the dye makers field is reported good and stocks are not over excessive. Makers quote 14c @ 16c lb. as to quantity.

Para-aminophenol—Demand has been slow but prices

are still high due to the high cost of raw material. Selling at \$1.40 @ \$1.50 lb.

Para-toluidine—Continues fairly active with prices steady at 90c @ \$1.00 lb. Stocks are still somewhat limited.

Starches and Dextrines

The close of last week saw a little better buying, but the holiday had a quieting effect in the early part of this week. Consumers are still working down stocks to a minimum before taking on further supplies, but makers are optimistic as to the future in spite of the dullness at present. Prices are unchanged.

BRITISH MAKE 80% OF DYES THEY USE

Eighty per cent of the dyestuffs consumed in Great Britain are now being produced by the British dye industry, according to an analysis of the dyestuffs business in the United Kingdom, recently received by the Department of Commerce from Consul General Robert P. Skinner, London. Imports during the last three years from the United States were:

| | 1920 | 1921 | 1922 |
|---------------|-------------|------------|----------|
| Intermediates | 44,537 cwt. | 1,324 cwt. | 1 cwt. |
| Dyestuffs | 15,636 cwt. | 1,219 cwt. | 150 cwt. |

Dyestuffs exported from

Great Britain, value—£3,523,738 £1,552,898 £710,703

Dudley D. Gessler, Philadelphia, selling dyestuffs and chemicals under his own name and as Keystone Chemical Co., has been ordered by the Federal Trade Commission to "cease and desist giving to employees of certain textile mills, without the knowledge and consent of their employers, commissions and sums of money to induce the employees to secure from their employers preference for respondent's products."

Eighty per cent of Germany's total production of coal tar dyes is located within occupied territory and 50 per cent of Germany's total production of pharmaceuticals is also in that territory, according to a report to the Department of Commerce by Assistant Commercial Attache Daugherty, Berlin. Supplies cannot be shipped from stocks on hand for the estimated six months period announced by the Germans.

Dyanilin Chemical Co.'s plant, New Brunswick, N. J., has been sold to Kuno P. Heberlein, a Connecticut manufacturer, who will enlarge the factory and continue the business. The property includes four acres, five buildings with 14,000 feet floor space, equipment, residence; and railroad siding.

National Aniline & Chemical Co. had an exhibit at the exposition held in connection with the annual convention of National Confectionery Association, Atlantic City. The exhibit was for the purpose of presenting to the trades most interested the extensive line of "National" certified food colors.

E. I. du Pont de Nemours & Co. have increased the number of its products to approximately 350, of which about 90 have been produced within the last year. The output of the Deepwater plant for the first four months of this year has been approximately double that of the same period last year.

United Dyewood Corp. reports for the year ended Dec. 31, 1922, including returns of subsidiary companies, net income of \$2,075,037 after interest charges and reserves for depreciation and taxes. In 1921, a net income of \$551,826 was reported after the same deductions.

United Chemical Products Co., Buena Vista, Va., will rebuild the portion of its plant recently destroyed by fire.

WILL AID RUHR SHIPPERS

American buyers of dyestuffs and chemicals will be assisted in obtaining export licenses for goods on order in the Ruhr district by an arrangement made by the State Department with the Franco-Belgian authorities. Joined with the recent withdrawal by the Berlin government of its former prohibition against German concerns delivering goods to foreigners who intend themselves to export them under license from the Allied authorities, this arrangement is expected to facilitate the movement of goods on order for American account with concerns in occupied Germany.

The German Dye Cartel has transferred the management of all plants in or near the Ruhr district to Hamburg and Berlin, pending French occupation of the dye works from which they are removing 250,000 tons of dyestuffs, due as reparations. The textile manufacturers are complaining of a shortage of colors and a few plants may be closed temporarily.

H. A. Metz says there are not 250,000 tons of dyes in all the German plants seized by the French, and although the amount due the French may be approximately 250,000 tons the bulk of it must be manufactured, and he does not believe the French chemists can continue this work without the aid of German experts.

French troops, occupying the Hoechst dye works, have been withdrawn, according to a report by cable.

The German chemicals works at Oppau were seized May 23, by French troops, and the stocks removed.

Value of dyes seized by the French in German plants, last week, is estimated at \$2,000,000.

METHODS NOT UNFAIR, SAYS BARRETT CO.

The Barrett Co., New York and Philadelphia, in replying to Federal Trade Commission's complaint of unfair methods of competition, admits use of the word "rubber" as a term used throughout the trade, in connection with asphalt roofing, but denies using the word as a description of the composition of the roofing material or that its use as mentioned had the effect of creating the impression that it was made in whole or part of rubber.

In regard to the allegation in the complaint that the terms "one-ply," "two-ply" and "three-ply," used to designate the different degrees of thickness of the product, were misleading, inasmuch as the product consisted of but one layer, The Barrett Co. denies that the use of these terms created any false impression among its own customers or those of other concerns and states that in common with other manufacturers it has adopted a method by means of which the use of these terms will be abandoned or used only when accompanied by explanatory words.

The Government's suit for \$40,000 duty on the cargo of dyes brought over by the German submarine Deutschland is being arbitrated in Baltimore, Md., before U. S. Circuit Judge Rose. A Schumacher & Co., assignees of the cargo, claim that only \$0,000 is due. The cargo was landed Jan. 10, 1916.

Polish salt production was 295,403 metric tons in 1922, a decrease of 6,421 metric tons from the production of 1921. While most of this salt is consumed in Poland, small quantities are exported to Denmark and other countries bordering on the Baltic, Consul General L. J. Keena, Warsaw, reports.

American Leather Chemists will hold a convention at White Sulphur Springs, W. Va., June 7-9. Papers on chrome tanning, tannin, and use of oil in leather making will be read, and F. M. Moffat, president of the Tanners' Council, will address the association.

The Oil Market

Current Spot Quotations of Oils, Tallow, Greases, p age 1391

LINSEED OIL REMAINS STEADY

Upward Movement Is Expected—Crushers Buying Foreign Oil—Chinawood Oil Declines Still Further—Cotton-seed Oil Higher—Tallow Advanced—Turpentine and Rosin Down.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| | |
|------------------------------------|----------------------------------|
| Advanced | |
| Cottonseed Oil P.S.Y., spot 3/4c | Cottonseed Oil W.Y., spot 3/4c |
| lb. | lb. |
| Cottonseed Oil White, spot 3/4c | Horse Oil, 1/2c lb. |
| lb. | Tallow, loose, 1/4c lb. |
| Declined | |
| Chinawood Oil, bbls., spot, 2c lb. | Olive, foots, shipment, 1/4c lb. |
| Chinawood Oil, tnks., spot, 1c lb. | Soya Bean, crude, 1/4c lb. |
| Chinawood Oil, June-July, 3c lb. | Soya Bean, crude, spot, 1/4c lb. |
| Chinawood Oil, Coast, 2c lb. | Stearine 1/2c lb. |
| Corn Oil, crude, 1/4c lb. | Turpentine, 7c gal. |
| | Rosin, 5-25c per unit. |

Trend of the Market

| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
|-----------------------------|---------|-----------|------------|-----------|----------|----------|
| Cod Oil, N. F.....gal. | \$72 | \$72 | \$70 | \$60 | \$1.27 | \$36 1/2 |
| Degras, American, bbl.lb. | .04 1/2 | .04 1/2 | .04 1/2 | .04 | .25 | .03 1/2 |
| Lard, No. 1.....gal. | .91 | .91 | .94 1/2 | .80 | 2.90 | .92 |
| Menhaden, crd. bbls.gal. | .55 | .55 | .55 | .35 | 1.20 | .33 |
| Neatsfoot, 20 deg. c.t.gal. | 1.25 | 1.25 | 1.27 | 1.80 | 3.45 | .95 |
| Red Oil, distilled.....lb. | .10 3/4 | .10 3/4 | .11 1/4 | .08 1/4 | .17 | .07 |
| Stearic Acid, T.P.....lb. | .14 3/4 | .14 3/4 | .16 | .10 | .33 | .12 |
| Coconut, Ceylon | | | | | | |
| Dom., bbls.....lb. | .10 1/4 | .10 1/4 | .10 1/4 | .08 3/4 | .90 | .14 |
| Cottonseed, crude, t'ks lb. | .09 3/4 | .09 3/4 | .10 | .10 | .25 | .08 |
| Linseed.....gal. | 1.14 | 1.14 | 1.20 | .88 | 1.88 | .57 |
| Olive, denatured.....gal. | 1.17 | 1.17 | 1.17 | 1.12 | 4.50 | 1.05 |
| Peanut, refined.....lb. | .16 1/2 | .16 1/2 | .17 | .13 1/4 | .30 | .08 |
| Soya Bean, bbls.....lb. | .13 1/4 | .13 1/4 | .13 1/4 | .11 1/2 | .19 1/2 | .07 |
| Average | 0.500 | 0.516 | 0.510 | 0.470 | 1.30 | 0.362 |

The vegetable oil market continues easy and further declines are noted. Chinawood oil interests hold the opinion that the market is firming up and further declines are not expected in the near future. As general business conditions are good, there is no tangible reason why dull business in this market should continue. Linseed oil is firm and there is a slight tendency for the domestic market to move upwards and one crusher is now quoting \$1.18 in carlots. Crushers are doing their utmost to buy up all available stocks. Foreign prices still keep at low levels inducing crushers to purchase those stocks heavily. Animal oils are reported in better demand. Tallow has advanced. Fish oils are a waiting market but next week should show movements in sympathy with the new supply and demand conditions. Lack of the expected substantial demand caused turpentine and rosin prices to seek lower levels.

Vegetable Oils

Castor Oil—The situation is easing with increased supplies of seed in sight. The demand is of a routine nature and steady at unchanged prices. No. 1 at 14c @ 15c lb. and No. 3 at 14c @ 14 1/2c lb.

Chinawood Oil—The position seems to indicate that holders are trying to tempt buyers with lower prices ruling when a firmer market may be expected. All positions again lower at 28c lb. in bbls.; tanks, N. Y., 27c lb.; June-July, forward, China, 21c lb.; Coast, tanks, July, forward, 21c lb.

Coconut Oil—Buyers are holding off purchases thinking that prices are too high, and the demand continues slow. Prices remain unchanged at 10c @ 10 1/4c lb. for Ceylon, spot; Cochin, 11c @ 11 1/4c lb.; Manila, in tanks, coast, 8 1/4c lb.

Corn Oil—For two weeks this market has remained featureless and a decline in crude, in tanks at mills, marks the price down to 9 1/4c @ 9 3/4c lb.; refined unchanged at 13 1/4c @ 13 1/2c lb.

Cottonseed Oil—There is a short interest estimated at nearly 1000 barrels. Crude oil in tanks at mills, unchanged at 9 3/4c lb.; P. S. Y. higher on spot at 11 1/4c lb.; white, 12c lb.; winter yellow, 12 1/4c lb. The demand is more evenly distributed. May opened this week 25 points higher \$11.75; July \$11.45; September \$11.15; and December \$8.88.

Linseed Oil—The fact that one firm tried to buy at \$1.02 and was refused seems to emphasize the expectation of higher prices ruling the near future. A sale of 20 tons of Dutch oil has been made at \$1.07 which figure indicates the feeling of foreign influence. June delivery is marked up at \$1.12 @ \$1.14; imported, spot, \$1.07 @ \$1.10. London linseed oil is again higher at 47/6 cwt. Flax prices are practically unchanged. May Winnipeg, opened at \$2.43 1/4; July \$2.42; Oct., \$2.23; Duluth, cash, \$2.90; May, \$2.90; July, \$2.75; Sept., \$2.60. Buenos Aires, June, steady at \$2.10. Minnesota receipts 15,000 bushels.

Olive Oil—Remains unchanged and firm at \$1.17 @ \$1.20, for denatured. Edible steady at \$1.80 @ \$2.20. Foots have declined for shipment at 9 1/4c lb.

Palm Oil—The demand is slow and prices are unchanged at 8c @ 8 1/4c lb. for Lagos; Niger at 7 1/4c @ 7 3/4c lb.

Peanut Oil—The demand continues limited at unchanged prices. Bbls., N. Y., 12c @ 12 1/2c lb.

Perilla Oil—Is not too plentiful and prices are firm at 16 1/4c @ 16 1/2c lb. for spot.

Rapeseed Oil—Demand continues weak with prices ruling at 85c @ 86c lb.

Soya Bean Oil—Is steady to easy experiencing a moderate demand. Crude, tanks, coast slightly lower at 10 1/4c @ 10 3/4c lb. Crude bbls., N. Y., at 13c @ 13 1/4c lb.

Animal Oils

Greases—Prices remain unchanged though the demand has improved. Choice white spot, 8c lb.; yellow, spot at 7c lb.; brown, 6 3/4c lb.; house, 7c lb.; bone naphtha, 6 1/2c lb.

Horse Oil—In moderate demand at 10c lb. spot.

Lard Oil—Is fairly firm and inquiries are increasing at 12 3/4c lb. for off prime in bbls.; extra, 12 1/2c lb.; extra No. 1, 12c lb.; No. 1, 11 1/2c lb.; No. 2, 11c lb.

Stearine—Has declined and is in improved demand at 9 1/2c lb. spot.

Neatsfoot Oil—Business has slightly improved and prices remain the same at 16 1/4c lb. for 20° C. T.

Oleo Oil—This market is firmer with price remaining unchanged at 13 1/4c lb.

Red Oil—There is no marked change in the market since last week and prices hold firm at 10 3/4c @ 11 1/4c lb. for both distilled and saponified.

Stearic Acid—The position is unaltered and prices are unchanged at 13 1/2c @ 14c lb. for S. P. double pressed, 13 1/4c @ 14 1/4c lb.; triple pressed, 14 1/4c @ 15 1/4c lb.

Tallow—A revival of buying interest in this base has slightly increased the price at 7 3/4c lb. for city extra, loose.

Fish Oils

Cod Oil—Small quantity business still continues to feature this market and prices remain unaltered at 70c @ 74c gal. for Newfoundland.

Menhaden Oil—Some movement has taken place, a quantity of crude at Baltimore was sold this week around 50c gal. Prices are holding firm at 48c @ 50c gal. for crude, tanks, Balt.; light strained, spot, 86c.; yellow blchd, 84c gal.; blown, 92c gal.

Whale Oil—Demand remains unsatisfactory with prices apparently firm at 73c @ 75c lb. for natural winter; bleached, winter at 76c @ 78c gal., extra bleached 79c @ 81c lb.

Naval Stores

Turpentine—Has declined because demand is not too active and buyers seems to be feeling this market rather than taking it seriously from the point of view of purchasing. Ex-yard prices have sharply declined at \$1.11 @ \$1.13. Steam dist., at \$1.02.

Rosin—Buyers are showing a fair interest and the lower prices ought to influence a steadier demand. B, \$5.85; D, \$5.90; E, \$5.95; F, \$6.00; I, \$6.00; K, \$6.00; N, \$6.00; WG, \$6.75; WW, \$7.75.

Raisinseed oil experiments have been completed and the product is on the market in competition with China-wood and soya bean oils. California Products Co., Fresno, Calif., buys seeds the year round, cleans, dries, and stores them until the first of the year, then crushes and presses them. Quantity of seeds available for purchase is 500 tons to 2000 tons. The oil is light in color resembling beached linseed, drying time about 48 hours; specific gravity 7 lbs. to the gallon. It has a good gloss. The iodine number is 134. While it is claimed to be free of excess of acids and "foots" the gravity seems to be too light, with a slight tendency to crawl. It is a seasonal oil and the crushers say they cannot quote prices much lower than 11½c per lb. Brown-Edwards Co., San Francisco, and Tweedy Co., Inc., Los Angeles, are recognized distributors.

A recovery of the foreign trade in pigments, paints and varnishes was shown in the import in 1922 trade as well as in the export trade, a gain of 55 per cent in imports having been made. Although this growth in imports seems very high, it must be remembered that the total importations (\$3,673,000) in 1922 are relatively small when compared with the total exportations (\$11,475,000). Double the amounts of foreign zinc pigments were required during 1922, totals coming in equalling 27,846,000 pounds, \$1,290,000.

Cuban tariff on soaps, especially toilet soap in liquid or solid form, is expected to be increased in view of the 40 per cent tariff differential in favor of American soaps of this class. It is predicted that such an increase would stop the importation of European soaps.

Vegetable Oils and Fats Using Industries Bureau of Information has applied for a reduction in the duty on linseed oil under the flexible tariff.

Export duty on Argentina flaxseed during the month of May was 2.73 to 3.35 pesos per metric ton in bags; in bulk, 2.49 to 3.10 pesos.

U. S. Naval Stores Co. will erect a plant at Douglas, Ga., utilizing pine stumps, for producing turpentine and rosin.

Archer-Daniels Linseed Co. reports that weather has been unfavorable for planting flaxseed.

CEYLON COPRA EXPORTS TO U. S. DECLINE

Ceylon's exports of copra during 1922 were 1,686,589 cwt, an increase of about 319,000 cwt over the exports of 1921. This total has been exceeded in only one previous year—1919. Italy replaced Denmark as the most important purchaser of Ceylon copra, exports to Italy increasing from 222,600 cwt in 1921 to 476,685 cwt in 1922, according to U. S. Consul Marshall M. Vance.

Exports of desiccated coconut fell behind the record established in 1921 by about 10,850,000 pounds. Practically all of this decrease is due to the smaller demand in the United States, exports to America showing a decrease from 41,332,329 pounds in 1921 to 30,717,479 pounds in 1922, or about 10,615,000 pounds. The United Kingdom replaced the United States as the largest purchaser of Ceylon desiccated coconut, shipments to the United Kingdom increasing about 2,200,000 pounds.

Exports of coconut oil in 1922 showed a marked increase, about 70,000 cwt over those of 1921. The amount of exports in 1922 has been exceeded only once, in 1919.

The United Kingdom continues to be Ceylon's best customer for coconut oil. Exports to Germany increased greatly, the percentage of increase being more than 300. The United States has practically dropped out of the Ceylon coconut oil market.

OIL CHEMISTS ELECT OFFICERS

Fifty members of the American Oil Chemists' Society attended the annual convention in Hot Springs, Ark. Bleaching edible oils and refining under vacuum were the principal problems discussed. William Kelly, Filtrol Co., Cal., and Louis C. Whiton, representing the Bataille process, described present methods employed in bleaching and refining. Francis M. Turner, T. Shriver & Co., explained a dealbumenizing process. The following officers were elected:

H. B. Battle, Montgomery, Ala., president; H. J. Morrison, Procter & Gamble, Ivorydale, O., vice president; P. P. Hinterlang, International Refining Co., San Antonio, Tex., second vice president; J. R. May, Jr., Barrow-Agee Laboratories, Shreveport, La., third vice president; Thomas B. Caldwell, Law & Co., Wilmington, N. C., secretary-treasurer; Herbert S. Bailey, Southern Cotton Oil Co., Savannah, Ga., editor, and A. W. Putland, Portsmouth Cotton Oil Refining Corporation, Portsmouth, Va., assistant editor.

URGE WHITE SOAPS FOR HOSPITAL USE

Interviews with hospital physicians and superintendents on the proper soap for toilet purposes have been collected by Oliver H. Bartine, director, Hospital Consultation Bureau, New York. E. S. Gilmore, Wesley Memorial Hospital, Chicago, says: "A highly colored and perfumed soap should be viewed with skepticism." Dr. A. B. Denison, Lakeside Hospital, Cleveland, O., says: "A pure soap, uncolored and unperfumed, is probably the most satisfactory." Chas. F. Diehl, superintendent, Hospital for Joint Diseases, New York, says: "We use a white soap, unperfumed."

About thirty other hospital superintendents in New York City and state, forty in New England hospitals, and an equal number in the middle Atlantic states, including a special Pennsylvania list, in middle west states, and on the Pacific Coast, are quoted briefly as endorsing the use of white soaps as best for health and cleanliness.

Chas. A. Mann, connected with Baker Castor Oil Co., 120 Broadway, for many years, died on May 25, at his home, 500 West End Ave., New York.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 1380

CITRIC DEMAND IS STRONG ABROAD

European Countries Out-bidding Domestic Importers—
Antipyrine Has Advanced—Japanese Camphor Up—
Cream Tartar Shipment Easier—Potash Permanganate Declines Further—Business Dull.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| | |
|-------------------------------|--------------------------------|
| Advanced | |
| Antipyrine, 15c lb. | Mercury, \$1.00 flask |
| Cod Liver Oil, \$1.00 bbl. | Podophyllin, 25c lb. |
| Declined | |
| Acid Tartaric, Imp., 3/4c lb. | Glycerin, Dynamite, 1/4c lb. |
| Cream Tartar, Imp., 1/4c lb. | Potassium Permanganate, 1c lb. |

Trend of the Market

| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Acetanilid | \$.32 | \$.32 | \$.35 | \$.30 | \$2.00 | \$.20 |
| Acid Citric, Import | .52 | .52 | .52 | .44 1/2 | 1.25 | .45 |
| Caffeine Alkaloid | 3.75 | 3.75 | 3.75 | 3.75 | 18.00 | 3.65 |
| Calomel, American | 1.25 | 1.25 | 1.25 | .94 | 3.43 | .90 |
| Camphor, Jap., ref. | .88 | .87 | .88 | .75 | 3.55 | .41 |
| Iodine, Resublimed | 4.55 | 4.55 | 4.55 | 4.20 | 5.00 | 3.75 |
| Menthol | 7.75 | 7.75 | 7.70 | 5.50 | 13.50 | 3.00 |
| Potassium Bromide, Cryst. | .26 | .26 | .26 | .23 | 4.30 | .80 |
| Quinine Sulfate, Imp. | .50 | .50 | .50 | .60 | .90 | .25 |
| Sodium Salicylate | .47 | .47 | .52 | .32 | 4.25 | .27 |
| Strychnine Sulfate | .84 | .84 | .84 | .76 | 2.05 | .50 |
| Average | 2.19 | 2.19 | 1.93 | 1.62 | 5.92 | 1.56 |

A quiet market with limited amount of goods changing hands and few revisions in prices, characterized the medicinal situation during the past week. The situation has been analyzed as one of a contract or manufacturing nature and not as a dealer's. It is thought in the trade that the current peak of prices was reached in March-April, and that the general trend will be gradually downward until about July-August, when it will again rise. A few items are firmer for shipment due to the increased demand in Europe for these goods. However, the spot market is not without its firm items, such as, citric acid, antipyrine, amidopyrine, and mercury. Potash permanganate is still swinging downward. Cream tartar is easier for shipment.

Acetanilid—The trade is wondering how this item can be made and sold at a profit, in the face of high cost raw materials. Unchanged at 32c @ 35c lb. for spot barrels.

Acid Acetylsalicylic—Makers are still at odds as to price. One group quoting 95c lb. spot and the other \$1.05 lb. spot inside. Demand for export has been up to normal. Resale goods quoted at 95c @ \$1.00 lb. spot.

Acid Citric—During the past few months demand has steadily increased in Europe until the price there is quoted higher than in this market. As long as domestic makers can take care of needs over here, there will be no cause to worry. They will apparently be able to do this if the stretch of cool weather lasts much longer. Imported quoted at 52c @ 53c lb. spot with replacements costing as high as 53c @ 54c lb. f.o.b. Sicily. Makers still quote 49c lb. for spot in barrels.

Acid Diethylbarbituric—Has advanced and now quoted at \$4.75 @ \$5.25 lb. spot with even higher prices looked for as goods gradually leave weak hands.

Acid Salicylic—The trade appears to be generally agreed that 40c acid cannot be sold for any length of

time with phenol at 50c lb. or better. On the present basis some large contracts are said to have been closed. Quoted as to manufacturer at 40c @ 50c lb. spot. Competition is still very sharp with makers at odds. Makers appear to be gambling on future cheaper phenol for contract salicylate business.

Acid Tartaric—Has eased off slightly and now quoted at 36c @ 36 1/2c lb. spot owing to larger supplies coming out of Germany. Demand here at the moment is quiet. During past week 200 kegs were entered at New York.

Alcohol—All grades are steady after rise of last week. U. S. P. 190 pf. quoted by leading distillers at \$4.75 gal. spot. Completely denatured No. 1 is quoted at 38c @ 40c gal. for drums, and 35c @ 37c gal. for special denatured No. 1 in drums. A new company has entered the field with a daily output of 5000 gallons.

Amidopyrine—Some directions in the trade think that there was some mistake in regard to the alleged adulteration of this article reported last week in this publication and that it was not done intentionally. Firm both here and abroad and is quoted at \$6.00 @ \$6.50 lb. spot.

Antipyrine—Has advanced and now quoted at \$3.15 @ \$3.25 lb. spot with possibility of higher prices, owing to strength abroad and fairly small stocks carried at the moment.

Bay Rum—Imported unchanged but firm at \$3.17 gal. spot and denatured with quinine sulfate quoted at \$3.40 gal. Domestic synthetic at \$1.25 gal.

Camphor—Market has advanced owing to firmness in the Orient and now quoted at 88c @ 90c lb. spot for Japanese 2 1/2 lb. slabs. Domestic makers unchanged at 96c lb. spot for barrels.

Bromides—The steady climb of imported goods has been arrested. Imported ammonium quoted at 19c @ 20c lb. spot, potassium at 18c @ 19c lb. spot, and sodium at 21c @ 22c lb. spot. Domestic goods unchanged at 33c lb. for ammonium, 26c lb. for potassium, and 25c lb. for U. S. P. spot sodium.

Cocoa Butter—Quiet and easy at 27 1/2c lb. for spot bulk.

Cod Liver Oil—Spot goods have advanced and now quoted at \$24.00 @ \$25.50 bbl. for Norwegian owing to heavy buying abroad. As the catch has now been completed, it is thought here that higher prices can be looked for from Norway.

Cream Tartar—Quoted slightly easier on spot at 25 1/2c @ 26c lb. with larger supplies coming out of Germany. Shipment for June quoted at 24 1/2c lb. During last week 1395 bags and 459 kegs of "crude" were entered at New York.

Formaldehyde—Makers are generally quoting 15c lb. in barrels with tendency to reach a firmer level. Demand has been good of late. Second hands are having some difficulty in getting supplies as makers are fairly well sold up.

Fusel Oil—Makers refuse to quote saying that they have no stocks and do not know where they can get them. Nominally quoted at \$4.75 gal. During past week 141 drums were entered at New York.

Glycerin—While 17 1/2c @ 18c lb. is quoted for C. P. in drums, it is thought in the trade that this price can be shaded on important business. Dynamite has de-

clined and now quoted at 16c lb. for spot drums. A lot was sold early last week in the middle west for 15¾c lb. It is predicted in the trade that the market will be soft for the next two or three months.

Menthol—Spot unchanged at \$7.75 lb. in spite of firmer quotations coming out of Japan, in fact it is said that spot market is lower than replacement figures. Last week saw 130 cases entered at New York.

Mercury—Has advanced again and now quoted at \$69.00 @ \$69.50 flask spot. The stocks here are considered small when compared with usual quantities carried. The London market is fluctuating as is shown on May 12 the metal was quoted at £10 19s 6d per flask and the first of last week it was quoted at £10 10s per flask. During last week 1964 flasks were entered at New York.

Podophyllin—Has advanced and now quoted at \$5.50 @ \$5.75 lb. spot.

Potassium Permanganate—The market is getting weaker as fresh supplies come on the market. There appears to be no end of the article. Has declined and now quoted at 18c @ 19c lb. spot with some possibility of shading these figures.

Sodium Benzoate—In good demand at 65c lb. for spot U. S. P.

New regulations in reference to shipping documents which are missing or are incomplete have been issued by Assistant Secretary of the Treasury Moss. Customs collectors are advised to demand and collect \$20 for each missing invoice not produced within six months, and \$10 for each missing declaration of the owner or consignee not produced within 90 days from date of entry. An amount equal to the invoice value plus the duty will also be collected for failure to return to the collector, on demand, packages subject to redelivery.

The National Research Council has issued a Colloid Bibliography in mimeographed form. The author, Dr. Harry N. Holmes of Oberlin College, chairman of the National Research Council Committee on the Chemistry of Colloids, intends this edition to be preliminary to a more comprehensive one. It is a book of 135 pages containing 1800 references on 106 topics. All the references are classified and many are accompanied by brief comment as an aid in deciding on their relative importance.

Bureau of Mines has found way to discover within three minutes whether a person has been affected by carbon monoxide gas, through the extent of poison saturation in the blood. Formerly it took approximately from 24 to 48 hours before diagnosis could be made of cases by a skilled organic chemist. The test is effected through a simple and inexpensive instrument which may be carried in the pocket and which requires no special training for its operation.

Armand Co., Des Moines, Ia., manufacturers of toilet preparations, is charged by Federal Trade Commission with maintaining standard resale prices through co-operation with its dealers, customers and agents.

E. S. Parks Shellac Co., Fall River, Mass., has awarded a contract to Joseph M. Darling, Jr., for one-story addition at its plant, estimated to cost about \$25,000.

McCormick & Co., Baltimore, have insured their employees, the amount of the policy depending on length of service.

FOREIGN TRADE IN CHEMICALS GAINS

Coal-Tar Products Show Expansion of 53 Per Cent Over First Quarter of 1922

The value of chemicals and allied products exported from the United States during the first quarter of 1923, according to preliminary figures, registered an increase of 17 per cent over the corresponding period of 1922. These increases in value ranged from 19 per cent in the case of medicinal and pharmaceutical products to 130 per cent in the case of wood and denatured products and also included coal-tar products; naval stores; paints, pigments, and varnishes; and perfumery, cosmetics, and other toilet preparations.

Foreign sales of coal-tar products for the first quarter showed an expansion of 53 per cent over the corresponding period of 1922, rising from an aggregate value of \$1,810,331 in 1922 to \$2,761,118 in 1923. The major increase in this group was in crudes. However, the value of intermediates doubled and finished coal-tar products increased over 30 per cent. Large increases were made in many of the individual commodities shown under this class, especially benzol, which rose 55 per cent from \$518,867 (15,523,529 pounds) in the first quarter of 1922 to \$802,435 (23,910,698 pounds) in the same period of 1923; and coal-tar colors, dyes, and stains, which increased 32 per cent, from \$973,603 (1,387,245 pounds) to \$1,288,642 (3,766,410 pounds). In the coal-tar groups, declines occurred in naphthalene, which fell from \$4,433 (36,264 pounds) in the 1922 quarter to \$4,196 (30,171 pounds) in 1923; medicinals, from \$64,909 (132,036 pounds) to \$37,555 (51,324 pounds); and photographic chemicals from \$34,974 (101,291 pounds) to \$24,172 (59,543 pounds).

Noticeable decreases occurred in the value of the exports of all dyeing extracts, although the quantity of the exports of dye extracts other than logwood increased considerably.

Important gains and some losses as to values occurred in the exports of the heavy and fine chemicals during the periods under discussion. The biggest advance was made in bleaching powder (68 per cent) and the largest loss was in calcium carbide (63 per cent).

MAY START GERMAN PLANTS ELSEWHERE

German chemical manufacturers will eventually cease operations in Germany and establish themselves in foreign countries, according to William Neuberg, New York, importer of citric and tartaric acids, who has returned recently from a five-months trip through Europe. "Since about 75 per cent of the plants are located in the Ruhr and Rhineland districts, he said to a representative of DRUG & CHEMICAL MARKETS, "and these are gradually being absorbed by the French, the only alternative is to manufacture chemicals in countries where Germans can obtain the fruits of their labor. Conditions at present are not as bad as they are painted. Labor is still employed and the only people to suffer are the elderly ones who have no means of support. France may take over the factories, but they do not appear to be able to work them successfully. Trading in chemicals is carried on in a small way, as shown by a trader who came into my European office very much excited, and said he could offer me 100 kilos of tartaric acid."

Nearly five hundred members of the American Wholesale Grocers' Association, in convention at Washington last week, went to Baltimore by special train and visited the plant of American Sugar Refining Co., Locust Point, and the establishment of McCormick & Co.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 1395

ERGOT UP ON REDUCED STOCKS

Importers Advance Prices and Withdraw Quotations As Spot Stocks Shrink—St. Vincent Arrowroot In Better Supply—Conflicting Reports on Insect Powder—Mexican Sarsaparilla Firmer.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

| Advanced | | Declined | |
|-----------------------|----------------------------|----------------------------------|-------------------------------|
| Balsams, Peru, 5c lb. | Ergot, 1c lb. | Arabic Gum, Amber Sorts, 1/2 lb. | Ipecac Root, Cart., 5c lb. |
| Cohosh Root, 1/2 lb. | Lycopodium, 1c lb. | Bayberry Wax, 15c lb. | Shellac, T. N., 1c lb. |
| Culvers Root, 2c lb. | Rhubarb, Powd., 1c lb. | Caraway, Dutch, 1c lb. | Tragacanth Gum, No. 1, 3c lb. |
| | Sarsaparilla, Mex., 5c lb. | Henbane Leaves, U.S.P., 5c lb. | Wormseed, Levant, 25c lb. |

| | Trend of the Market | | | | | |
|----------------------------|---------------------|-----------|------------|-----------|----------|---------|
| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
| Aconite Root, U.S.P. | .35 | .35 | .35 | .22 | .90 | .12 |
| Buchu Leaves, Short | 1.00 | 1.00 | .87 | .87 1/2 | 4.00 | .85 |
| Cantharides, Russian | 1.75 | 1.75 | 1.75 | 4.50 | 9.00 | 2.10 |
| Cocculus Indicus | .03 1/2 | .03 1/2 | .03 1/2 | .04 1/2 | .85 | .03 |
| Ergot, Spanish | .52 | .52 | .52 | 1.02 | 4.50 | .54 |
| Insect Powder, pure | .67 | .67 | .70 | .52 | 1.00 | .28 |
| Ipecac, Cartagena, powd. | 1.90 | 1.95 | 1.95 | 1.85 | 4.50 | 1.35 |
| Nux Vomica | .06 1/2 | .06 1/2 | .06 1/2 | .06 | 1.45 | .07 |
| Opium, gum | 7.00 | 7.00 | 6.75 | 6.00 | 30.00 | 5.00 |
| Rhubarb Root, H. D. | .43 | .40 | .37 | .60 | 1.75 | .15 |
| Tragacanth, No. 1, ribbon | 1.32 | 1.55 | 1.60 | 1.90 | 6.00 | 1.50 |
| Wild Cherry Bk., thin nat. | .10 | .10 | .09 | .09 | .21 | .07 |
| Average | 1.28 | 1.28 | 1.33 | 1.38 | 5.28 | 1.00 |

In a market which has been little beyond the same dull affair of a month back, the current week saw a number of items, which have been selling below replacement costs, advance on spot. Business during the first part of the week was reported fair, but towards the end buying was more or less restricted, probably due to the holiday. One larger importer in discussing the situation said, "Business, while fair, could be a lot better". With the limited demand, some price shading has been induced, although it has been confined chiefly to the minor items of the group. Although opinions vary, the majority in the trade here claim a very slight broadening in inquiry during the past two weeks, but round lot orders are the exception rather than the general rule.

Aconite Leaves—Unchanged and in fair supply at 16c@17c lb. spot.

Agar Agar—Reports have come forward that considerable supplies were lost on the Japanese steamer that was sunk some time ago off the Pacific coast. No. 1 quoted at \$1.50 lb. spot ranging as low as \$1.25 lb. for No. 3 grade.

Aloes—Barbadoes unchanged at 65c@70c lb. spot with possibility of firmer prices owing to somewhat depleted spot stocks, according to reports from trade. Demand has been good. Cape unchanged at 12c@14c lb. spot, and Curacao unchanged at 8c@8 1/2 c lb. spot.

Arabic Gum—Amber sorts has declined and now quoted at 14 1/2 c@15c lb. spot with tendency to become easier. Some directions in trade say that this price can be shaded.

Arrowroot—St. Vincent unchanged but said to be in better supply at 15c@15c lb. spot.

Balsams—Canadian Fir scarce and firm at \$13.00@ \$14.00 gal. spot. Oregon Fir is said to be out of the market. Peru has advanced and now quoted at \$1.75@

\$1.80 lb. spot with tendency for firmer prices. Tolu firm at \$1.00@ \$1.10 lb. spot cleaned.

Bayberry Wax—Has declined and now quoted at 35c@40c lb. spot owing to larger supplies.

Blackhaw Root—Unchanged but firm at 38c@40c lb. spot.

Buchu Leaves—Quoted firm at \$1.00@ \$1.06 lb. spot with some directions holding for \$1.10 lb. Demand good and supplies not over plentiful.

Caraway Seed—Dutch has declined and now quoted at 28c@29c lb. spot with new seed coming into the market at this price, which is said to be minimum. African quoted at 26 1/2 c@27c lb. spot with new arrivals easing off.

Cardamom Seed—All grades firm with possibility of higher prices. Cables from London report advance. Bleached quoted at \$1.40@ \$1.75 lb. spot, and decorticated at \$1.05@ \$1.15 lb. spot.

Cascara Sagrada Bark—Spot unchanged but in smaller domestic demand at 14c and 15c lb. for 1921 and 1922 peel, respectively. Export sales are reported to be good.

Chamomile Flowers—Roman quoted easy at \$1.20@ \$1.25 lb. spot. While chamomiles are said to be plentiful in France, 41,000 kilos were imported during 1922. Hungarian easy at 15c@16c lb. spot with reported possibility of shading this figure.

Cinchona Bark—Quills unchanged at 55c@60c lb. spot and broken at 19c@20c lb. spot. Exports from Java for 1922 were 6,617 metric tons as compared with 4,636 tons for 1921 and 4,526 tons for 1920. The Director of Finances in the Dutch East Indies has reduced the average market price for quinine, as calculated for the payment of export duties, from 10.8 Dutch cents to 10.7 cents per unit.

Cohosh Root—Black quoted higher at 9c@9 1/2 c lb. spot and blue firm at 16c@17c lb. if procurable.

Cubeb Berries—Easier at 80c@85c lb. owing to larger supplies being offered.

Ergot—Has advanced and now quoted at 53c@55c lb. spot owing to stocks on spot being reduced. One large dealer is said to have sold out and withdrawn quotations. Heavy buying by big consumers on the quiet has materially reduced spot holdings.

Gentian Root—Generally quoted at 8 3/4 c@9c lb. spot with some directions doing 8c lb.

Henbane Leaves—U.S.P. has declined and now quoted at 35c@40c lb. spot owing to heavy supplies carried here.

Insect Powder—Pure powdered said to be easy in some directions at 67c@72c lb. spot, while others are holding at 75c lb., and further say that the situation is looking up.

Ipecac Root—Cartagena declined and now quoted at \$1.70@ \$1.75 lb. spot for bags. Cables received from London state that price there has advanced.

Japan Wax—Spot quoted at 14 3/4 @15c lb., and is said to be so close to actual cost that there is no profit in it.

Lycopodium—Has firmed up and now quoted at 45c@ 47c lb. spot owing to better demand.

Rhubarb—Powdered has advanced and now quoted

at 48c@50c lb. spot with possibility that by the time the week is over, outside price will be the minimum.

Sarsaparilla Root—Mexican has advanced sharply and now quoted at 35c@36c lb. spot owing to scarcity on spot and higher costs in primary market. Honduras firm at 60c@65c lb. spot.

Vanilla Beans—Mexican whole quoted at \$8.50@ \$11.00 lb. spot. Supplies, when they arrive, will be pretty well sold up. Cuts quoted at \$6.50@ \$7.00 lb. spot with goods becoming more plentiful. Bourbons quoted at \$4.50@ \$5.00 lb. spot. It is thought in the trade that while this year's crop is less than last year, there will be sufficient quantities to go around when the surplus from last year's crop is taken into consideration. During the past week 139 cases of Bourbon beans were entered at New York. Reports are abroad that 10 cases of Tahiti were recently received at a Pacific port. Just where these went is still a mystery. This is the only arrival of these beans into this country from this year's crop as far as the trade has been able to ascertain.

HELIOTROPIN TARIFF GROUP CHANGED

Heliotropin has changed from Paragraph 61, which declares a 45 per centum ad valorem duty, to Paragraph 28, which states a 60 per centum plus 7 cents per pound duty based on American selling price for a period of two years from date of present tariff. It is stated in the trade that the only basis on which the duty on this item can be changed to the present rate, is to manufacture it in America from a coal tar base. Importers claim that the article as made to-day does not come from coal tar, but from safrol, which is obtained from camphor oil. A possibility exists however, that a small amount of this aromatic chemical are made from coal tar, but this is not done on a commercial scale, according to importers. At the most there are only a few pounds made, they say, which is without doubt insufficient to establish it as being made from coal tar, and thereby not warranted to be placed under the higher rate of duty. Importers say that the present domestic price of \$2.00 per pound is too high by about 30 cents, and when a duty of 60 per centum plus 7 cents per pound is paid, which will amount to \$1.27 per pound, the landed cost will be high enough to cause the importation of this article to be stopped.

GOVERNMENT APPEALS MENNEN CASE

In the petition filed by the Federal Trade Commission with the Supreme Court for a writ of certiorari in the Mennen Co. case it is maintained that if the decision of the United States Circuit Court of Appeals for the Second Circuit is upheld it will mean approval of a trade practice in interstate commerce which lessens competition between wholesale dealers, deprives the public of the benefit of this competition and tends to fix absolutely the channels of distribution.

Strong efforts are being made to have the court set aside the decision in this case involving price discrimination in that the Mennen Co. declined to sell its toilet articles to retailers at the same price at which it sells to wholesalers, even where retailers through attempts at co-operative buying sought to take the same quantity and quality of commodities as are taken by wholesalers.

A smoker held by the American Druggists Syndicate at Central Opera House, New York, on May 18, was attended by nearly 2,000 druggists. H. W. Merritt, Wilkesbarre, Pa., and A. D. S. director, spoke, and boxing bouts, vaudeville and music made up the program of entertainment.

LOSSES CUT FOREIGN DRUG COLLECTIONS

Caution induced by heavy losses experienced in 1922 by the wide fluctuations in exchange rates in Yugoslavia, Rumania, and Hungary, may cause restricted gathering of crude drugs from these sections of Europe this year, according to a report recently issued by G. Hoffman & Co., Marburg a/ Danube, Yugoslavia. They say regarding the prospects for 1923 crops: "In the countries of production like Yugoslavia Rumania and Hungary owing to the different money-exchanges and the intensive variations of values, the exporters suffered big losses last year and many enterprises lost a large part of their business-capital due alone to the differences of the exchange. These losses caused many to be more reserved and therefore to gather with less energy and ambition than in the past. Looking behind to the last business year, the dispatch of goods has been brisk and the prices obtained were satisfactory. We beg to mention that big qualities have been placed in Germany or placed by mediation of Germany and owing to the decline in the mark, Hamburg offered for long time goods in America at prices cheaper than the goods could be bought in the productive countries themselves. This abnormal situation could only be explained by the brisk and rapid disvaluation of the German mark. Meanwhile exchange of the mark grew more steady. On the other part the rates of freight and general conditions of life in all productive countries augmented in price and therefore it is to be supposed that the prices for the new crop will be substantially higher than last year. Generally the prices demanded by the small collectors move in connection with the bad standing of the dinars, of the Rumanian leis and Hungarian kronen, the prices rise as the values fall. Therefore it is to be supposed, as commonly happens every year, that the first goods of the new harvest will be quoted to the lowest possible prices, because as said above, the dealers are generally reserved in purchasing. Yet in the moment, when the demands for the new crop increase and when the centres of collections become active, prices will advance."

GOAT GLANDS APPEAL TO DRUG MEN

Chicago Drug and Chemical Association gave a luncheon on Friday, May 25. It was a great success, and the large attendance is attributed to the following circular sent to members by C. S. Curtis, Secretary:

Our Guest and Speaker:

Dr. David Klein of The Wilson Laboratories

Subject: "Goat Glands and Others"

What do you know about Goat Glands? You have undoubtedly read the newspaper stories. Do you believe them?

As a result of his work on this subject, Dr. Klein has gotten on the most familiar terms with Goat Glands and naturally is somewhat of a kidder himself. As Briggs might say, he can tell you what a Goat Gland thinks about.

He is going to give us the real inside dope.

He will start in where the newspapers leave off.

Imports of crude opium during the eight months ending February, 1923, totaled 87,631 pounds, valued at \$259,633, according to Bureau of Foreign and Domestic Commerce. Imports for March were 6,280 pounds, according to the narcotic division, Treasury Department, making total imports for the fiscal year to April, 93,911 pounds. The Federal Narcotic Control Board ruled recently that imports might be made this fiscal year equal to last fiscal year, 136,000 pounds. For the last three months of the fiscal year, April, May, and June, 42,089 pounds may be imported.

The Essential Oil Market

Current Spot Quotations of Essentials Oils, page 1397, Aromatic Chemicals, page 1398

OIL CITRONELLA HIGHER FOR SHIPMENT

Cables Received Naming Replacement Equal to Spot—Peppermint on Spot Easy in Spite of Firmness in Country—Cassia Advanced Again—Italian Orange Up Sharply—Duty on Heliotropin Has Been Changed

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced
Oil Cassia, Redistilled, 15c lb. Oil Orange, Italian, 10c lb.
Declined
Ylang Ylang, Bourbon, \$1.00 lb.

Trend of the Market

| | Today | Last Week | Last Month | Last Year | War Peak | Pre-War |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Oil Bergamot | \$2.50 | \$2.50 | \$2.60 | \$4.40 | \$7.00 | \$5.00 |
| Oil Citronella, Ceylon..... | .70 | .70 | .70 | .53 | .92 | .60 |
| Oil Cloves | 1.75 | 1.70 | 1.75 | 1.95 | 3.70 | 1.40 |
| Oil Lemon Italian..... | .80 | .75 | .75 | .75 | 1.70 | 2.00 |
| Oil Peppermint, Nat..... | 2.65 | 2.65 | 2.75 | 1.85 | 9.00 | 2.25 |
| Oil Sandalwood, E. I..... | 7.85 | 7.85 | 7.85 | 7.10 | 13.00 | 5.25 |
| Oil Sassafras, Artif..... | .45 | .45 | .43 | .45 | 1.00 | .26 |
| Benzaldehyde, U.S.P. | 1.50 | 1.50 | 1.50 | 1.40 | 5.15 | 1.50 |
| Coumarin | 4.50 | 4.50 | 4.40 | 3.90 | 31.00 | 3.10 |
| Methyl Salicylate, Cans.... | .57 | .57 | .57 | .35 | 1.00 | .90 |
| Vanillin | .40 | .40 | .40 | .50 | .95 | .29 |
| Average | 2.13 | 2.13 | 2.14 | 2.09 | 6.83 | 2.05 |

Consensus of opinion in the trade indicated less activity than the week previous. Development of a few spot scarcities, combined with two or three cables at higher figures, supplied the bullish element to the market. The group values as a whole are quite stable with the fluctuating element confined to a few items. Trading was less brisk during the early part of this week owing to the holiday. Oil anise is being offered cheaper for shipment. Higher cables have been received for oil citronella. Spot oil peppermint is easy in spite of firmness in country. Oil wormseed is said to be named in the country at \$10.00 lb.

Essential Oils

Oil Almond—Bitter unchanged at \$3.75 lb. spot for U. S. P., and \$3.75 lb. spot for sans prussic acid.

Oil Anise—Supplies are coming forth without any difficulty and are said to be offered cheaper for shipment. Spot quoted at 45c lb. for technical and 52½c @ 55c lb. for U. S. P. with easier tendency.

Oil Bay—Unchanged at \$2.50 @ \$2.60 lb. spot.

Oil Bergamot—Coppers quoted firm at \$2.60 @ \$2.70 lb. spot with a tendency to keep in line with other Italian goods. During the last three months of 1922 there was \$104,824 worth of bergamot imported into the United States.

Oil Camphor—Japanese white unchanged and steady at 13½c @ 15c lb. spot for cases. Heavy still quoted at 11½c @ 12c lb. spot for drums.

Oil Caraway—The effect of the conflicting reports on new oil from the primary market remains to be seen. Present supplies of spot goods are very limited and at the same time little material is coming out of the primary market. Spot quoted at \$7.25 @ \$7.50 lb. if procurable.

Oil Cardamom—Unchanged but firm at \$20.00 @ \$22.00 lb. spot.

Oil Cassia—The Department of Agriculture is holding up all German goods that have been received at this port under the name of "natural redistilled cassia". It is reported that there are some stocks being held up for

a somewhat better price, and still further that these supplies did not cost more than \$1.60 lb. laid down in New York. U. S. P. oil advanced and now quoted at \$3.00 @ \$3.10 lb. spot with possibility that the trade will see even higher prices in the near future.

Oil Cedar Leaf—Unchanged and firm at recent advance to \$1.10 @ \$1.20 lb. spot.

Oil Citronella—While there appear to be sufficient quantities of oil on spot to take care of present demands and the price of 70c @ 71c lb. for drums is generally quoted with one exception, cables from primary market have named close to spot quotation for future shipment. If these higher figures are warranted, spot oil ought to be selling on spot for about 72c @ 73c lb. as inside. Java unchanged and firm at 85c @ 87½c lb. spot.

Oil Cloves—Holding steady at \$1.75 @ \$1.85 lb. spot for U. S. P. in cans. Quiet with spice uncertain.

Oil Eucalyptus—In good supply at 47½c @ 50c lb. spot for U. S. P. cases.

Oil Geranium—All grades steady especially Bourbon, which, while quoted at \$6.75 @ \$7.00 lb. spot, is offered at higher figures abroad. African quoted at \$8.00 @ \$8.50 lb. spot and Turkish at \$4.75 @ \$5.00 lb. spot.

Oil Hemlock—Now quoted higher at \$1.55 lb. spot owing to scarcity in all quarters.

Oil Lavender—Spot U. S. P. firm at \$2.75 lb. with possibility of higher prices here due to firmer quotations in primary market. Spike unchanged at 70c @ 80c lb. spot. During the last three months of 1922, total lavender entered at New York was valued at \$128,833.

Oil Lemon—Consumption has been better of late and with further reduction of goods in first hands, it is expected that spot prices will advance further owing to higher replacement costs. The market has been fluctuating recently over a fairly wide range. Firm and unchanged at 80c @ 90c lb. spot. For the last quarter of 1922 lemon shipments valued at \$90,071 entered the United States. American unchanged at 75c @ 80c lb. spot.

Oil Lemongrass—Quoted at 80c @ 85c lb. spot with easier tendencies for shipment.

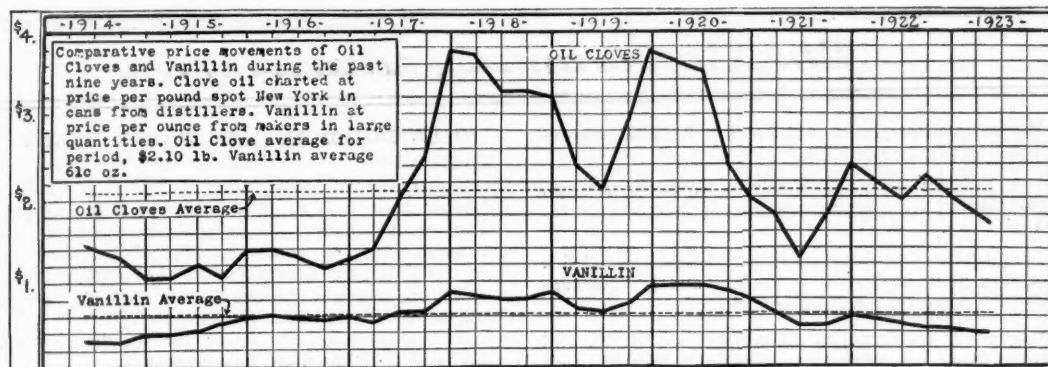
Oil Orange—Sweet West Indian is firm at \$2.60 @ \$2.70 lb. spot with possibility of moving to higher levels. Italian has advanced and now quoted at \$3.10 @ \$3.20 lb. spot inside with some directions quoting \$3.15 lb. inside. Combined importations during the last quarter of 1922 were valued at \$92,273. American unchanged at \$2.80 @ \$2.85 lb. spot.

Oil Peppermint—Consensus of opinion agrees that the spot market is dull and buyers are only supplying themselves with immediate requirements. Quoted at \$2.65 lb. spot for natural and \$2.90 lb. for redistilled.

Oil Sassafras—Firm and scarce at \$1.00 @ \$1.10 lb. spot.

Oil Wormseed—Reports are abroad that country is asking \$10.00 lb. inside. On checking up, it was found that this price is too high, and that while growers had practically nothing to offer for shipment, one outside hand was willing to sell a small quantity for \$7.00 lb.

Oil Ylang Ylang—Bourbon has declined and now quoted at \$5.50 @ \$6.00 lb. spot. Manila genuine firm and unchanged.



FIGURES SHOW VANILLIN TOO CHEAP

Statistics Based on Oil Clove Prices Indicate Vanillin 25% Under Normal—Lowest in Eight Years—Normal Price Ratio 3 to 1—To-day is Over 4 to 1.

Over a period of nine years, that is, from just prior to the outbreak of the war until the present time, the average price for vanillin in large quantities from manufacturers has been sixty-one cents per ounce as compared with an average price for clove oil over the same period of \$2.10 per pound. The average ratio has been about three and a half to one, comparing clove oil prices by the pound to vanillin prices by the ounce. Just prior to the war, vanillin had dipped to thirty cents per ounce as compared with a \$1.40 clove oil price, a ratio of $4\frac{1}{2}$ to one. In 1917, oil clove prices began to skyrocket, touching \$3.70 by the end of the year. During this period, vanillin went up to 85c, a ratio of $4\frac{1}{2}$ to 1. The highest point reached in manufacturers' vanillin prices during the past decade was at the peak of the 1919-20 inflation period, January, 1920, seeing vanillin quoted by makers at 95c per ounce. At the time, oil cloves was very scarce and high—\$3.75 lb. spot cans—owing to wild speculation in cloves all over the world and a price over 60c for Zanzibars in New York. The vanillin-clove oil ratio at these prices was about 4 to 1.

Both oil clove and vanillin prices dropped steadily during the 1920 and 1921 slump, touching bottom prices about the middle of 1921. These figures were \$1.25 for

clove oil and 45c for vanillin, a ratio of 3 to 1. By the end of 1921, the oil had jumped back up to \$2.20 lb. spot and vanillin was up to 60c ounce, about $3\frac{1}{2}$ to 1. Throughout 1922, the course of both prices was downward, vanillin ending the year at 42c ounce and clove oil at \$2.00 lb., almost 5 to 1. By the end of March, this year, vanillin was off to 40c oz. and the oil to \$1.80 lb., the ratio being $4\frac{1}{2}$ to one. At the present price, vanillin is at the lowest point of the past eight years, the current 40c market being due more to competitive conditions in the industry than to selling price based on normal costs. Prices have been hammered to a very low point by an abnormal situation. Clove oil to-day is about \$1.75 lb., cloves are about 26c lb. spot, while vanillin is 40c an ounce. At the beginning of 1915, the last time vanillin sold as low as 40c ounce, oil cloves was held at about \$1.05 per pound and the price was correspondingly cheaper than to-day.

Judging from these facts, a normal ratio based on this method of figuring vanillin market prices as against clove oil figures, is about three to one. That is, clove oil per pound should be about three times the price of vanillin per ounce in a normal peace-time market. Both are to-day below the averages for the past nine years, vanillin 35% under and clove oil 20% below. Without question, vanillin prices are out of line, based on raw material prices, on the low side. Considering nothing outside of the proportionate price of the oil, vanillin should be at least twenty-five per cent higher than it is to-day, which is approximately 50c per ounce.

Aromatic Chemicals

Benzaldehyde—Reports were heard that supplies were scarce and that \$1.60 lb. was inside for spot U. S. P. Further examination found that makers are still quoting \$1.50 @ \$1.75 lb. spot for U. S. P. and \$1.75 @ \$1.85 lb. for spot FFC.

Heliotropin—Duty has been raised from 45 per cent foreign valuation to 60 per cent plus 7c per pound based on American valuation owing to assertions that domestic product is made from coal-tar. Quoted at \$2.00 lb. for spot domestic, and \$2.25 lb. for imported.

Methyl Salicylate—Still quoted at 55c @ 60c lb. for spot drums and 57c @ 62c lb. for cases. Very little goods are being offered and contracts only are being done at the low figure.

Perfumery, Soap & Allied Industries of New York held the final meeting and dinner of the season at the Hotel Astor, New York, on Monday evening, May 30.

BULGARIAN ROSE CROP IS PROMISING

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Sofia, Bulgaria, May 19.—Heavy snow falls during the winter have done much to protect the rose bushes from severe weather, and the 1923 crop outlook of flowers is good. Owing to cold weather, the 1923 season will be about ten days late, the season harvest beginning about May 25 as compared with May 16 in previous years, according to a report from Shipkoff & Co., Ltd. who have factories in Kazanlik, Kalofer, and other rose growing centers of Bulgaria.

The yield of buds thus far has been satisfactory, aided by plentiful warm rains since April 10. This year's crop should be as large and of as good quality as last year. As the whole otto yield of 1922 was sold last year, flower prices may be slightly higher this year, supported by a sharp rise in rose prices in Grasse, France. Better flower prices in Bulgaria are expected to encourage rose growing and to prevent farmers going over to tobacco crops. Little change in otto prices this year is looked for.

The Consuming Industries

Waggoner-Gage Corp., will erect a \$250,000 cottonseed mill at Blytheville, Ark.

Fort William Pulp & Paper Co., Ottawa, Can., is planning to increase its newsprint production to 150 tons per day.

Dwight Mfg. Co., Alabama City, Ala., has installed a chlorining plant at Thornton Springs and is now supplying its employees with chemically pure water.

Pasquotank Hosiery Co., Elizabeth City, N. C., will increase its capital stock from \$50,000 to \$150,000, and add equipment that will more than double its capacity.

Owens Bottle Co., Clarksburg, W. Va., has placed an additional unit in operation at its plant. The daily capacity has been increased to 3,000 gross boxes of bottles.

A filtration plant will be installed at the Zelenople, Pa., municipal water works. The Common Council has engaged Leo Hudson, Pittsburgh engineer, to take charge of the work.

Columbia River Paper Mills, Inc., will erect a new plant at Vancouver, Wash., in the near future. The company is operated by the California-Oregon Paper Mills, Inc., East 57th street, Los Angeles, Cal.

Western Waxed Paper Co., Portland, Ore., is completing the erection of a plant in an east-bay unit of Greater San Francisco. The plant will have a floor space of 30,000 square feet.

Explosion in the laboratory of Bauer & Black, manufacturing chemists, Chicago, last week, killed a woman employee and wounded five others. Officials said they believed a chemical used to dissolve hard rubber caused the blast, or that the rubber came in contact with an electric wire.

A process by which cellulose acetate silk and films are rendered amenable to dyeing has been patented by La Societe Chimique du Rhone, Paris. A neutral alkali salt together with a salt having an alkaline reaction, such as sodium sulfate and sodium carbonate, are used in the bath which is gradually heated to 85 degrees centigrade.

A cotton mill in the South that will cost at least \$25,000,000 is in contemplation by Henry Ford, of Detroit, according to well authenticated reports received in Atlanta. Mr. Ford plans a mill with 300,000 spindles for the manufacture of all cotton drill used in the production of Ford automobiles. The quantity used annually in the Detroit factory runs into millions of yards and represents considerably more than 50 per cent of all drill manufactured in the United States for this purpose.

Production of sole leather, in April, according to preliminary figures of Department of Commerce, was 1,691,301 backs, bends and sides against 1,698,783 in March and 1,356,016 in April, 1922. Production of offal for sole and belting totaled 11,595,350 pounds compared with 11,827,992 pounds previous month and 9,254,653 pounds a year ago. Belting butts produced numbered 111,597 against 69,220 a year ago. Sole leather held by tanners at close of April rose to 8,029,204 backs, bends and sides from 7,990,259 previous month. Offal stocks of tanners were 41,083,261 pounds against 41,586,880 pounds at close of March.

WILL BUILD \$25,000,000 PAPER PLANT

Plans for the construction of Newfoundland's \$25,000,000 pulp and paper plant on the Humber River, are being pushed. The daily output of pulp and paper will be about 400 tons. The machinery will be of English manufacture, a condition demanded by the Trade Facilities Advisory Committee of the British Government before it would approve the undertaking, but Canadian firms will construct the mill and the dam, which will be built to furnish power for the hydro-electric plant. About 700 men are now employed.

W. G. Armstrong-Whitworth Co., Newcastle-on-Tyne, England, are backing the scheme and the British and Newfoundland Governments will guarantee £2,000,000 of 25-year bonds and £9,000,000 of 20-year sinking fund bonds respectively.

The name of the corporation will be Newfoundland Power & Paper Co., Ltd., and the Board of Directors will be made up of nine representatives of Armstrong-Whitworth interests, three of Reid-Newfoundland Co. and two of the British and Newfoundland Governments.

Fabrics dyed by a secret British process were recently subjected to a fastness test at the Drapery and Textile Exhibition in London. After two weeks of boiling in strong soap and soda water not one of the colors showed signs of having faded. The colors were British made. The application is a secret process.

New Consuming Companies

Sweet Mfg. Co., Dover, Del., \$100,000. Chemists, druggists. Dominick Sweet, Valerie Sweet, L. R. Hague. Capital Trust Co. of Delaware.

Bengall Products Co., Wilmington, Del., \$600,000. Manufacture antiseptics, labor-saving and sanitary compounds. Corporation Trust Co. of America.

Farmastic Co., Dover, Del., \$250,000. Paints, varnishes. Frank A. Cabeen, Jr., Geo. G. Meade, W. F. Diener. U. S. Corporation Co.

Humphreys Sales Corp., Wilmington, Del., \$600,000. Manufacture toilet articles. Delaware Corporation Co.

Alabama Textile Corp., Wilmington, Del., \$2,000,000. Manufacture. Colonial Charter Co.

United Beauty Parlors, Phila., Pa., \$350,000. Toilet articles. Corporation Guarantee & Trust Co.

Zero Products, Wilmington, Del., \$500,000. Creams, ices. Corporation Trust Co. of America.

Wm. E. Volk Candy Mfg. Co., Dover, Del., \$250,000. Chas. G. Guyer, M. L. Hurlock, Geo. M. Pierce, Wilmington.

Parisian Mfg. Co., Wilmington, Del., \$50,000. Hair dyes. Corporation Service Co.

Hopewell Color & Chemical Co., Hopewell, N. J., \$50,000. Peter M. Horn, W. Hergert, Edward Jones.

Waterloo Distilling Corp., Manhattan, \$500,000. Alcohol, distilled spirits and wines, for medicinal and sacramental purposes. W. H. Cragg, 1215 Bergen st., Brooklyn, N. Y.

Bay Chemical Co., Inc., Brooklyn, N. Y., \$100,000. Drugs, medicines, druggists' sundries. C. Oechler, 4085 Ferris st., Woodhaven, N. Y.

Dixon Club of Carteret, 72 Roosevelt ave., Carteret, N. J., \$100,000. Manufacture ice cream, confectionery, etc.

Hope Dental Mfg. Co., Wilmington, Del., \$300,000. Manufacture dental supplies.

Central Mfg. District Terminal Co., Wilmington, Del., \$100,000. The business of cold storage and warehousing.

United Ice Co. of Long Island, Inc., Dover, Del., \$700,000. Manufacture of ice.

General Glass, Inc., Wilmington, Del., \$1,000,000. Manufacture glass.

Quaker Hill Paper Co., New Haven, Conn., \$50,000. Paper and pulp products. A. W. Chambers, H. H. Hitchcock, Geo. P. Smith, 188 Church st., New Haven.

Atlas Petroleum Corp., San Antonio, Tex., \$50,000. Petroleum products. Wm. & T. R. Levin, J. E. Mason.

Bay Fertilizer Co., Tampa Bay, Fla., \$100,000. Fertilizer products. S. W. Allen, C. Edmond Worth.

The Foreign Markets

Imports of Drugs and Chemicals, page 1399

| FOREIGN EXCHANGE | | Par | Current |
|------------------------------------|--|---------|---------|
| Great Britain (pound sterling) | | \$4.886 | \$4.625 |
| France (franc) | | .193 | .066 |
| Italy (lira) | | .193 | .048 |
| Germany (mark) per hundred | | 23.80 | .001 |
| Czechoslovakia (crown) per hundred | | 20.30 | .029 |
| Poland (mark) per hundred | | 23.80 | .001 |
| Japan (yen) | | .499 | .488 |
| Spain (peseta) | | .193 | .152 |
| Holland (guilder) | | .402 | .391 |
| Belgium (franc) | | .193 | .056 |
| Switzerland (franc) | | .193 | .180 |
| Sweden (crown) | | .268 | .266 |
| Denmark (crown) | | .268 | .185 |
| Argentina (peso) | | .424 | .358 |
| Brazil (milreis) | | .279 | .103 |
| China (Silver dollar—Hongkong) | | .789 | .548 |
| (Tael—Shanghai, silver) | | 1.082 | .746 |
| (Tael—Peking, silver) | | 1.156 | .786 |

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

- 6340—Technical and edible oils and fats, greases, and tallow—Rotterdam, Netherlands. Agency.
- 6436—Foodstuffs, chemicals, perfumery, Cape Town, South Africa. Agency.
- 6394—Oils, rosin, Rio de Janeiro, Brazil. Agency.
- 6400—Rosin and turpentine, Genoa, Italy. Agency.
- 6401—Black decolorant for bleaching purposes, Turin, Italy. Agency.
- 6402—Drugs, chemicals and toilet articles, Winnipeg, Canada. Purchase and agency.
- 6403—Fertilizers and Chile nitrate, Mannheim, Germany. Purchase.
- 6405—Chemicals, drugs and druggists' sundries, Winnipeg, Canada. Purchase.
- 6406—Crude sulfur, 99 per cent, Karachi, India. Purchase.
- 6432—Drugs, Palermo, Italy. Agency.

MANY GERMAN CHEMICALS ARE SCARCE

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany, May 19.—There is a very strong demand for tartaric acid and caustic potash, but the supply is inadequate. In other lines business is conducted on a comparatively small scale owing to scarcity of supplies. The market is strongly influenced by the fluctuations in exchange and every fluctuation in the value of the mark is accompanied by a corresponding change in prices of chemicals. Export business is quiet which may be attributed in part to uncertainty.

Prices of nitrate fertilizers have been increased. Sulfate of ammonia, muriate of ammonia, ammonium sodium sulfate, sodium saltpetre and potassium saltpetre are higher by 500 marks to 6,500 marks per kilo of nitrate, and nitrate of lime by 300 marks to 5,700 per kilo.

According to the Customs Enactment of 1923 of the Federated Malay States, effective April 1, 1923, export duties are levied on the following native products; Vegetable oils, gambier, pepper, and sugar. The export of cocaine, opium and explosives other than industrial is prohibited except to the United Kingdom, British possessions, and protectorates. Licenses are required for the exportation of China clay or kaolin, potash, and soda feldspar to be used as a flux or glaze.

COD LIVER OIL AND BROMIDES HIGHER

London Also Advances Cartagena Ipecac, Tartaric Acid and Cardamoms—Market Easier for Chillies and Potash Salts—Drug Auctions To Be Held on Thursday, May 31.

(Special Cable to DRUG & CHEMICAL MARKETS)

London, May 30.—Price advances have taken place, this week, in cod liver oil, ipecac (Cartagena), bromides, tartaric acid and cardamoms.

The market is easier for chillies and potash salts.

The Drug Auctions will be held on Thursday, May 31.

London, May 19 (By Mail).—Prices have a downward tendency, but dock reports show an improvement in deliveries. In some cases fairly important parcels of crude drugs have been quietly absorbed, and, without corresponding arrivals, London stocks are being materially reduced. Ipecacuanha has been in better demand and some difficulty is met with in obtaining suitable quantities of uniform testing quality for high grade powdering purposes. Sennas have been moving off more freely but the higher grades are scarce. Eucalyptus oil is in improved demand is higher; also Japanese peppermint oil. Acetic acid has been gaining in strength for some weeks and is much dearer, no arrivals of note having taken place. The Borax Union while making no change as yet in Borax has reduced boracic acid by £5 per ton. Acetone and shellac are again on the down grade, and sulfate of copper and almost all the leading fixed oils, after their recent advance, are cheaper.

CHILE COLLECTS HUGE WAR INDEMNITY

Commenting on the nitrate tax which Chile has assessed on exports, the "Wall Street Journal" says: "In 1879 Chile went to war with Bolivia and Peru. In 1884 a treaty of peace was celebrated by which a province of each of these countries was annexed by Chile. This has nothing to do with the question of Tacna and Arica, solution of which is pending.

"These two provinces, Antofagasta and Tarapaca, contain great deposits of nitrate of soda. Since 1884, Chile has exported 59,453,420 tons of this commodity, on which the government has levied a tax of \$12.20 a ton. Tax proceeds to end of last year, therefore, \$725,331,724. Chileans maintain that the nitrate beds will yield double the amount exported last year for more than 100 years longer. Estimating only 50 years' yield at the same rate as last year, further collection of nitrate export duty will amount to \$793,000,000.

"To the total of \$1,518,331,724 may be added the proceeds of a tax on borax and iodine, both products of the annexed provinces, and some guano. But the figure as given suffices for this exposition. It is some war indemnity for a country of 3,750,000 inhabitants, considering, moreover, that the war cost less than \$55,000,000."

Chemicals used in dry cleaning and removing spots from suits and a small dry cleaning and dyeing apparatus are desired by a firm in Demerara, British Guiana, according to announcement by Philadelphia Commercial Museum.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted

herein are for goods spot New York or Metropolitan District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

| | |
|-----------------------------|------------------------|
| 1 Imperial Gallon (British) | —1.20 American Gallons |
| 1 American Gallon | — .833 Imperial Gallon |
| 1 American Gallon | —3.79 Liters |
| 1 Liter | — .264 American Gallon |
| 1 American Gallon (Water) | —8.35 Pounds |
| 1 Pound (Avoirdupois) | — .454 Kilograms |
| 1 Kilogram | —2.20 Pounds |

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Chemicals

| | | |
|-------------------------------------|---------|---------|
| ACETANILID, tech. 150 lb bbls. D | .27 | .28 |
| 100 lb kgs. D | .28 | .30 |
| USP 200 lb bbls. D | .32 | .35 |
| Second Hands D | .34 | .35 |
| Acetic Anhydride, 85% 480 lb drs. D | .38 | .38 |
| 85% 107 lb chys. D | .38 | .38 |
| 92-95% 100 lb chys. D | .43 | .45 |
| Acetone, CP 700 lb drs. c/l wks. D | .25 | .25 |
| 700 lb drs. 1c/l wks. D | .25 1/4 | .25 1/4 |
| 350 lb drs. 1c/l wks. D | .25 1/4 | .25 1/4 |
| Second Hands, spot. D | .30 | .32 |
| Acetone Oils, light, bbls, wks. gal | 1.00 | 1.00 |
| Heavy, bbls, wks. gal | 1.00 | 1.00 |
| Acetophenone, CP 1 lb bot. D | 4.00 | 4.25 |
| Acetophenetidin, 150 lb bbls. D | 1.85 | 1.95 |
| Acetyl Chloride, 100 lb chys. D | .40 | .41 |
| ACID, 25%, 400 lb bbls. c/l | .10 | 1.30 |
| Acetic, 25%, 100 lb wks. D | 3.38 | 3.38 |
| 28%, 1c/l wks. 100 lb D | 3.63 | 3.63 |
| 56%, c/l wks. 100 lb D | 6.75 | 6.75 |
| 56%, 1c/l wks. 100 lb D | 7.00 | 7.00 |
| 70%, bbls. c/l wks. 100 lb D | 8.38 | 8.38 |
| 70%, 1c/l wks. 100 lb D | 8.63 | 8.63 |
| 80% coml. bbls. c/l wks. 100 lb D | 9.58 | 9.58 |
| 80% pure bbls. c/l wks. 100 lb D | 11.41 | 11.41 |
| 80% pure 1c/l wks. 100 lb D | 11.60 | 11.60 |
| Glacial, bbls. c/l wks. 100 lb D | 12.78 | 12.78 |
| Glacial, 1c/l wks. 100 lb D | 13.03 | 13.03 |
| Glacial, USP chys. wks. 100 lb D | 13.53 | 13.53 |
| Acetylacetic, 220 lb bbls. D | .95 | 1.05 |
| Second Hands D | .95 | 1.00 |
| Anthracene, ton lots drs. D | .94 | .94 |
| 95-98%, 100 lb drs. D | 1.00 | 1.10 |
| 99-100%, 100 lb drs. D | 1.20 | 1.20 |
| Benzene, tech. 100 lb bbls. D | .75 | .75 |
| Tech. ton lots bbls. D | .70 | .70 |
| USP, 100 lb bbls. D | .72 | .77 |
| Boric, crys. powd. 250 lb bbls. D | .11 | .11 1/4 |
| Keps, 100 lb D | .11 1/4 | .12 |
| Bromine's, 250 lb bbls. D | .155 | .155 |
| Butyric, 60% pure 5 lb bot. D | .50 | .60 |
| Camphoric, USP VIII 1 lb bot. D | 5.50 | 5.60 |
| Carbolic, USP crys. see also Phenol | | |
| 110 lb tins D | .57 | .57 |
| 25 lb tins D | .59 | .59 |
| 5 lb tins or bot. D | .61 | .62 |
| 1 lb bot. D | .66 | .66 |
| Liquid, USP, 1 lb bot. D | .65 | .65 |

| | | |
|--------------------------------------------|---------|---------|
| ACID, Carbolic—(Continued) | | |
| Crude, 25% 50 gal. bbls. gal | .35 | .36 |
| 10%, 50 gal. bbls. gal | .30 | .32 |
| Chloracetic, mono 100 lb bbls. wks. D | .30 | .30 |
| DI, 150 lb chys. wks. D | 1.00 | 1.00 |
| Tri, 425 lb bbls. wks. D | 2.45 | 2.45 |
| Chlorosulfonic, 1500 lb drs. wks. D | .15 | .16 |
| Chromic, USP 300 lb drums. D | .40 | .40 |
| 85% Pure, 300 lb drums. D | .35 | .35 |
| Chromotropic, 300 lb bbls. D | 1.25 | 1.25 |
| Chrysophanic, see Chrysarobin | | |
| Cinnamic, 5 lb cans. D | 3.00 | 3.25 |
| CITRIC, USP crys 230 lb bbls. D | .49 | .49 |
| Powd., USP 200 lb bbls. D | .50 | .50 |
| Imported, crys. 112 lb kgs. D | .52 | .53 |
| Single kgs. D | .53 | .54 |
| Cleaves, 250 lb bbls. D | 1.00 | 1.10 |
| Cresylic, 95% dark dr. rosale. gal | .12 1/4 | .12 1/4 |
| 97-99% straw, drs. wks. gal | .120 | .130 |
| 97-99% pale, drs. Imp. gal | .120 | .130 |
| 97-99% decolor. drs. wks. gal | .120 | .130 |
| Diethylbarbituric, 10 lb lots, 1 lb bot. D | 8.50 | 10.50 |
| Formic, 75% tech. 100 lb chys. D | .11 | .12 |
| 90%, 75 lb chys. incl. D | .12 1/4 | .14 |
| Gallic, USP 150 lb bbls. D | .70 | .75 |
| Gamma, 225 lb bbls, wks. D | 1.80 | 1.90 |
| Bbls., ton lots wks. D | 1.70 | 1.80 |
| Glycerophosphoric, 25% 1 lb b. D | 1.05 | 1.70 |
| H. 225 lb bbls. single. D | .85 | .85 |
| Bbls. ton lots wks. D | .80 | .80 |
| Hydrolic, 10% USP 5 lb bot. D | .65 | .70 |
| Hydrobromic, 48% coml. 155 lb chys. wks. D | .35 | .40 |
| 48% coml. 10 chys. wks. D | .40 | .40 |
| 40% USP 155 lb chys. wks. D | .45 | .46 |
| 10% USP 100 lb chys. wks. D | .11 | .13 |
| Hydrochloric, see also Acid Muriatic | | |
| CP, USP, 110 lb chys. D | .09 | .11 |
| HYDROFLUORIC, 30% 400 lb bbls. wks. D | .07 | .07 |
| 30% bbls. c/l wks. D | .06 | .06 |
| 30% 100 lb chys. wks. D | .07 | .07 |
| 48% single 100 lb chys. wks. D | .11 | .11 |
| 48% 10 chys. wks. D | .10 | .10 |
| 52% 100 lb chys. wks. D | .12 | .12 |
| 52% 10 chys. wks. D | .11 | .11 |

| | | |
|-------------------------------------------|---------|---------|
| Acid, hydrofluoric—(continued) | | |
| 60% 100 lb chys. wks. D | .14 | .14 |
| 60% 300 lb dr. wks. D | .13 | .13 |
| White Acid, 100 lb chys. wks. D | .26 | .26 |
| White Acid, 10 chys. wks. D | .25 | .25 |
| Hydrofluosilicic, 35% 450 lb bbls. wks. D | .10 | .13 |
| Hypophosphorous, USP 30% 5 gal. demis. D | .95 | .95 |
| USP, 10% 5 gal. demis. D | .35 | .35 |
| LACTIC, 22% dark 500 lb bbls. D | .04 1/4 | .05 |
| 22% light, bbls. D | .05 1/4 | .06 |
| 44% dark, bbls. D | .09 1/4 | .10 |
| 44% light, bbls. D | .11 1/4 | .12 |
| 66% bbls. D | .16 | .16 |
| USP IX 100 lb chys. D | .60 | .70 |
| USP VIII 100 lb chys. D | .55 | .55 |
| Laurent's, 250 lb bbls. D | .90 | .90 |
| Metanilic, 250 lb bbls. D | .60 | .65 |
| Mixed, sulfuric-nitric | | |
| Drums, wks. D | .07 1/4 | .08 |
| Drums, wks. D | .01 | .01 1/4 |
| Tank cars, wks. D | .07 1/4 | .08 |
| Tank cars, wks. D | .009 | .01 |
| Molybdic, 85% pure 1 lb bot. D | 1.75 | 1.85 |
| 85% pure, 100 lb kgs. D | 1.30 | 1.30 |
| Monosulfonic F, Delta. 50 lb tins D | 2.30 | 2.30 |
| MURIATIC, 20° chys. 1c/l wks. 100 lb D | 1.25 | 1.50 |
| Chys. c/l wks. 100 lb D | 1.10 | 1.50 |
| Tank cars, wks. 100 lb D | 1.00 | 1.10 |
| 18°, 120 lb chys. c/l wks. 100 lb D | 1.00 | 1.10 |
| Tank cars, wks. 100 lb D | .90 | 1.00 |
| 22°, 120 lb chys. c/l wks. 100 lb D | 1.75 | 2.00 |
| Iron, free, 20° chys. c/l wks. 100 lb D | 1.35 | 1.35 |
| Tank cars, wks. net ton 20.00 | 25.00 | 25.00 |
| Muriatic, CP & USP, see Acid Hydrochloric | | |
| Naphthionic, tech. 250 lb bbls. D | .63 | .63 |
| Refined, single bbls. D | .65 | .65 |
| Neville & Winther's, 250 lb bbls. D | 1.25 | 1.25 |

A Few COOPER SPECIALTIES

REDISTILLED MERCURY
REDISTILLED TURPENTINE
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RESUBLIMED IODINE
PURE AMMONIUM SULPHATE

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135 WILLIAM STREET

NEW YORK CITY

Chemicals

ACID, NITRIC, 36° 135B

| | | |
|-------------------------------------|-------|---------|
| Chy. wks.100B | 4.75 | : 5.00 |
| Chy. c/l wks.100B | 4.50 | : 4.75 |
| 38° single chy. wks.100B | 5.50 | : 5.75 |
| Chy., c/l wks.100B | 5.25 | : 5.50 |
| 42° Single chy. wks.100B | 6.00 | : 6.50 |
| Chy., c/l wks.100B | 5.75 | : 6.00 |
| 44° Single chy. wks.100B | 6.75 | : 7.50 |
| Chy., c/l wks.100B | 6.50 | : 7.00 |
| C. P. chy. single wks.100B | .14 | : .16 |
| Oxalic, 325B bbls. wks.B | .13½ | : .14 |
| Bbls., NY.B | .14 | : .14½ |
| Kegs., 100B NY.B | .. | : .14½ |
| Imp., 560B casks.B | .13½ | : .13½ |
| Phenylacetic, 1B bot.B | 3.00 | : 4.00 |
| Phosphoric, 50% tech. 100B chy. | .08 | : .09 |
| USP, 85% syrupy, 70B demis | .. | : .18 |
| Phthalic, see Phthalic Anhydride | .. | : .. |
| Picramic, 300B bbls.B | .. | : .65 |
| Pieric, 450B bbls.B | .. | : .30 |
| Bbls. car lots wks.B | .20 | : .25 |
| Pyrogallie, crys. 5B cans.B | .. | : 1.20 |
| Resublimed, 5B cans.B | 1.55 | : 1.60 |
| Tech. powd., 200B bbls.B | .. | : .80 |
| Salicylic, tech. 125B bbls.B | .38 | : .43 |
| USP, 100B bbls.B | .40 | : .50 |
| Second HandsB | .44 | : .46 |
| Sulfamic, 250B bbls.B | .17 | : .20 |
| SULFURIC, 66° 180B chy. | .. | : .. |
| lc/l wks.100B | 1.25 | : 1.50 |
| Chy., c/l wks.100B | 1.00 | : 1.25 |
| 1500B Drums, lc/l wks.100B | .. | : 1.10 |
| Drums, c/l wks.100B | .. | : 1.00 |
| Tank cars, wks.net ton | 15.00 | : 16.00 |
| 60° 1500B Drums, lc/l wks.100B | .70 | : .80 |
| Drums, c/l wks.100B | .60 | : .80 |

Acid Sulfuric

| | | |
|--------------------------------------------------------|-------|---------|
| Tank cars, wks.net ton | 9.00 | : 11.00 |
| C. P. 175B chy.100B | .09 | : .11 |
| Oleum, 20 p.c. 1500B drums, lc/l wks.100B | .. | : 1.50 |
| Drums, c/l wks.100B | .. | : 1.25 |
| Tank cars, wks.net ton | 18.00 | : 20.00 |
| Contract cars, wks.net ton | .. | : 18.00 |
| Oleum, 40% drs lc/l wks. net ton | .. | : 40.00 |
| Oleum, 60% drs., lc/l wks. net ton | .. | : 70.00 |
| Sulfurous, USP 6% 100B chy. B | .05 | : .06 |
| 4% 100B chy.B | .04 | : .05 |
| USP, 5 gal. demis.B | .06 | : .08 |
| Tannic, tech. 300B bbls.B | .40 | : .50 |
| USP, powd. 200B bbls.B | .70 | : .75 |
| USP, huffy, 50B bbls.B | .75 | : .80 |
| Tartaric USP cryst 300B bbls. B | .. | : .37½ |
| USP, powd. 300B bbls.B | .. | : .37½ |
| Imp. USP, 240B bbls.B | .36 | : .36½ |
| Powd. 240B bbls.B | .35 | : .36 |
| Tobias, 250B bbls.B | 1.20 | : 1.30 |
| Tungstic, 100B kegs.B | .. | : 1.00 |
| Aconitine Alk. cryst. 1 oz. vis. oz | .. | : 30.00 |
| Amorphous, 1 oz. vis.oz | .. | : 20.00 |
| Adeps Lanae, hydrous 350B bbls B | .21 | : .23 |
| Anhydrous, 350B bbls.B | .23 | : .24 |
| Albumen, Egg, edible.B | .. | : .88 |
| Technical, see Dyers Sundries | .. | : .. |
| ALCOHOL, USP 190 pt. 50 gal. bbls.gal | .. | : 4.75 |
| Second Hands, bbls, USP 190 pt.gal | .. | : 4.65 |
| Export, USP 190 pt.gal | .37 | : .45 |
| Cologne Spirit, 50 gal. bbls. gal | .. | : 4.75 |
| WOOD, see Methanol | .. | : .. |
| Alcohols, also in 50 gal. drums, extra and returnable. | .. | : .. |
| Amyl, see Oil Fuel | .. | : .. |

ALCOHOL—(continued)

| | | |
|-------------------------------------|-------|---------|
| Butyl, 50 gal. drums.B | .. | : .40 |
| Cinnamic liquid, 1B bot.B | 10.00 | : 12.00 |
| Crystallizable.B | 12.00 | : 15.00 |
| Isobutyl, crude 50 gal. drums. gal | .. | : 4.40 |
| Refined, 10B can.B | .. | : .75 |
| Isopropyl, crude 50 gal. drs. gal | .. | : 2.25 |
| Refined, 50 gal. drs.gal | 4.00 | : 4.50 |
| Ref'd, 91%, drs.gal | .. | : 3.50 |
| Methyl, see Alcohol, Wood | .. | : .. |
| Phenylethyl, see Phenylethylalcohol | .. | : .. |
| Propyl, nml. crd 50 gal. drms. gal | .. | : 4.40 |
| Refined, 10B can.B | .. | : .75 |
| Denatured | .. | : .. |
| No. 1 Complete Denat. 188 Proof | .. | : .. |
| 50 gal. bbls. incl.gal | .43 | : .45 |
| 50 gal. drums, extra.gal | .38 | : .40 |
| No. 1 Special Denat. 190 Proof | .. | : .. |
| 50 gal. bbl. incl.gal | .41 | : .43 |
| 50 gal. drums, extra.gal | .35 | : .37 |
| No. 5 Complete Denat. 188 Proof | .. | : .. |
| 50 gal. bbls. incl.gal | .40 | : .42 |
| 50 gal. drums, extra.gal | .34 | : .36 |
| No. 6 Complete Denat. 188 Proof | .. | : .. |
| 50 gal. bbls. incl.gal | .39 | : .42 |
| 50 gal. drums, extra.gal | .33 | : .35 |

In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their use however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.

ACIDS

SULPHURIC
MURIATIC
NITRIC
AQUA FORTIS
MIXED
FUMING SULPHURIC
HYDROFLUORIC
ACETIC
BATTERY
BUTYRIC

In Various Grades and Strengths

SALTS

SULPHATE ALUMINA
(For Paper Makers and Water Works)
GLAUBER'S SALT U. S. P.
Regular and Needle Crystal
EPSOM SALT
U. S. P. and Technical

General Chemical Company

40 Rector Street, New York

Baltimore
Buffalo
Chicago

Cleveland
Denver
Easton

Montreal
Philadelphia
Pittsburgh

San Francisco
Providence

Cable Address: Lycurgus, New York

Chemicals

| | | | | |
|--------------------------------------|--|--|---------|-----------|
| Aloin, USP 100 lb cases.....D | | | .87 | : .90 |
| Alpha-Naphthol, crude 300 lb bbls.D | | | ... | : .85 |
| Refined, 300 lb bbls.....D | | | ... | : .75 |
| Alpha-Naphthylamine, 350 lb bbls.D | | | .37 | : .39 |
| Ton lots, bbls, wks.....D | | | .35 | : .37 |
| ALUM, Ammonia, lump 400 lb bbls. | | | | |
| wks.....100 lb | | | 3.50 | : 3.65 |
| Imp., 500 lb casks.....100 lb | | | 3.25 | : 3.50 |
| Ground, 400 lb bbls. wks.100 lb | | | 3.65 | : 3.75 |
| Powd., 380 lb bbls. wks.100 lb | | | 3.90 | : 4.00 |
| Chrome, 500 lb cks wks.100 lb | | | 5.00 | : 6.00 |
| Potash, lump 400 lb bbls. | | | | |
| wks.....100 lb | | | ... | : 4.50 |
| Bbls. c/l wks.....100 lb | | | ... | : 4.25 |
| Cont. bbls c/l wks.....100 lb | | | ... | : 4.25 |
| Imp. 650 lb casks s.p.....100 lb | | | 3.00 | : 3.25 |
| Ground, 400 lb bbls. wks.100 lb | | | 4.35 | : 4.60 |
| Imp. 650 lb casks.....100 lb | | | 3.00 | : 3.25 |
| Powd., 380 lb bbls. wks.100 lb | | | 4.50 | : 4.75 |
| Chrome, 700 lb cks wks.100 lb | | | 5.25 | : 5.50 |
| Soda, grd. 400 lb bbls. wks.100 lb | | | ... | : 4.00 |
| Bbls. c/l wks.....100 lb | | | ... | : 3.50 |
| Aluminum, metal, c/l NY.....100 lb | | | 25.00 | : 26.00 |
| Chloride, anhyd. 375 lb drs..D | | | .30 | : .33 |
| 30% sol. 120 lb clys.....D | | | .03 1/2 | : .04 |
| Hydrate, 95% light 90 lb bbls.D | | | .18 1/2 | : .20 |
| SULFATE, Iron-free bags c/l | | | | |
| wks.....100 lb | | | 2.50 | : 2.65 |
| Imported, spot.....100 lb | | | 2.50 | : 2.60 |
| Comm'l., 3/4% iron, bags c/l | | | | |
| wks.....East 100 lb | | | 1.45 | : 1.50 |
| ALUMINUM SULFATE—(Continued) | | | | |
| Cont. bags c/l wks. E.100 lb | | | ... | : 1.40 |
| Bags, c/l wks. W...100 lb | | | ... | : 1.35 |
| Bbls., c/l wks. East.100 lb | | | ... | : 1.60 |
| Bulk, c/l cont. wks. E.100 lb | | | ... | : 1.35 |
| Amidol, (see Diaminophenol) | | | | |
| Amidopyrine, 10 lb boxes.....D | | | 6.00 | : 7.50 |
| 1 lb cartons, 10 lb.....D | | | ... | : ... |
| Aminoozobenzene, 110 lb kgs...D | | | ... | : 1.15 |
| AMMONIA anhyd. 100 lb cyl..D | | | ... | : .30 |
| Water, 26° 800 lb drs. wks..D | | | ... | : .07 1/2 |
| Drs. c/l wks.....D | | | .07 | : .07 1/2 |
| Imp., 800 lb drs incl spot.D | | | .06 1/2 | : .07 |
| 26° 100 lb clys. lc/l wks..D | | | ... | : .08 1/2 |
| Chys., c/l wks.....D | | | ... | : .08 1/2 |
| 20°, 800 lb drs. lc/l wks..D | | | ... | : .06 |
| Chys., lc/l wks.....D | | | ... | : .07 1/2 |
| 18°, 800 lb drs. lc/l wks..D | | | ... | : .05 1/2 |
| Chys., lc/l wks.....D | | | ... | : .07 1/2 |
| 16°, 800 lb drs. lc/l wks..D | | | ... | : .04 |
| Chys., lc/l wks.....D | | | ... | : .05 |
| Ammonium Acetate, 100 lb kgs..D | | | .35 | : .38 |
| Benzoate, USP 1 lb bot.....D | | | .85 | : .90 |
| Bifluoride, 300 lb bbls.....D | | | .22 | : .23 |
| 100 lb kgs.....D | | | .23 | : .24 |
| Bromide, 50 lb boxes.....D | | | ... | : .33 |
| Imported, 112 lb boxes.....D | | | .19 | : .20 |
| Carb., tech. 560 lb casks.....D | | | ... | : .09 1/2 |
| Powd., tech. 385 lb bbls..D | | | ... | : .09 |
| USP, lump, 100 lb kgs.....D | | | ... | : .09 1/2 |
| Powd., 100 lb kgs.....D | | | ... | : .08 1/2 |
| Chloride, Domestic | | | | |
| White gran. 250 lb bbls.NY.D | | | ... | : .08 |
| Bbls., c/l wks.....D | | | ... | : .07 1/2 |
| Gray 250 lb bbls, wks.....D | | | .08 1/2 | : .08 1/2 |
| Bbls, c/l wks.....D | | | .08 | : .08 1/2 |
| AMMONIUM CHLORIDE—(Continued) | | | | |
| Imp. wh. 600 lb cases spot.D | | | .06 1/2 | : .06 1/2 |
| Gray, 600 lb casks spot..D | | | .08 | : .09 |
| Lump, 500 lb casks spot....D | | | .13 | : .14 |
| Ichthyolate, as to brand.....D | | | .75 | : 4.00 |
| Iodide, USP 25 lb jars.....D | | | ... | : 5.20 |
| Lactate, 500 lb bbls.....D | | | .15 | : .18 |
| Nitrate, tech. crys. 225 lb bbls.D | | | ... | : ... |
| Refined Crystals, bbls.....D | | | .18 | : .20 |
| CP gran. 100 lb kgs.....D | | | .35 | : .37 |
| Oxalate, pure, 100 lb kgs.....D | | | .50 | : .57 |
| Persulfate, 112 lb cases.....D | | | .55 | : .60 |
| Phosphate, dibasic 200 lb bbls.D | | | .54 | : .60 |
| Tech., powd. 325 lb bbls...D | | | .15 | : .17 |
| Salicylate, USP 100 lb kgs..D | | | ... | : .85 |
| Sulfate, bulk c/l wks.....100 lb | | | ... | : 3.20 |
| 200 lb single bags c/l wks.100 lb | | | ... | : 3.30 |
| 200 lb double bags, f.a.s.100 lb | | | ... | : 3.50 |
| Sulfoxyanide, tech. 100 lb kgs.D | | | ... | : .50 |
| CP, 25 lb jars.....D | | | .60 | : .65 |
| Amyl Acetate, tech. 50 gal. drs.gal | | | 3.50 | : 4.00 |
| Pure, 5 gal. cans.....gal | | | 6.00 | : 7.00 |
| Alcohol, see Fusel Oil | | | | |
| Butyrate, 1 lb bot.....D | | | 2.00 | : 2.10 |
| Formate, 1 lb bot.....D | | | 1.75 | : 2.00 |
| Salicylate, 100 lb clys.....D | | | 1.45 | : 1.60 |
| Anethol, 2 lb bot.....D | | | 1.60 | : 2.00 |
| ANILINE OIL, 900 lb drs. 5 dr.sp.D | | | ... | : .17 |
| Aniline Salt, 200 lb bbls.....D | | | .24 | : .35 |
| Anisic Aldehyde, 1 lb bot.....D | | | 3.40 | : 4.00 |
| Anthracene, 40-45% 600 lb casks | | | | |
| wks.....D | | | .13 | : .17 |
| 80-85%, 600 lb casks wks...D | | | .75 | : 1.00 |
| Anthraquinone, subl 125 lb bbls.D | | | 1.30 | : 1.35 |
| 30% paste 350 lb bbls.....D | | | .75 | : .80 |
| Antimony metal, slabs ton lot.100 lb | | | 7.00 | : 7.50 |
| Needle Powd., 100 lb cases....D | | | .06 1/2 | : .07 |

The Name Associated With

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Fine Chemicals and Alkaloids of Rare Quality



Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Brucine and Salts
Caffeine and Salts
Cocaine and Salts
Codeine and Salts
Colchicine Alkaloid, U. S. P.
Colchicine Salicylate
Croscote, U. S. P.
Croscote Carbonate
Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Guaiacol Liquid

We are the headquarters for

SANTONIN

Crystals - U.S.P. - Powder

Guaiaco Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastine Hydrochloride
Hyoscyamine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein
Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinate
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

Chemicals

| | | | | | | | | |
|---------------------------------------------|-----|---------|--------------------------------------------|-----|---------|---------------------------------------------------|-------|-------|
| ANTIMONY CHLORIDE, anhyd 1000B | | | Bay Rum, Porto Rican, genuine | | | Beta-Naphthylamine, tech. 200B. | | |
| dra. | D | .35 | Denat. salicy acid or tartar emetic | | | oids. | D | .76 |
| 50B. erodia. | D | .48 | 45 gal. bbls. | gal | 3.17 | Sublimed, 200B bbls. | D | 1.35 |
| Sol'n. 130B carbonyl. | D | .12 | Denat. quinine sulf. 45 gal. | | | Bichloride Mercury, see Mercury Bichloride | | |
| Grds. 500B bbls. | D | .07 | bbls. | gal | 3.40 | BISMUTH metal, 150B cases. | D | 2.75 |
| Salt, dom. 500B bbls. | D | .24 | Domestic synthetic, 50 gal. | | | Second Hands. | D | 2.65 |
| Imp., NY. | D | .23 | bbls. | gal | 1.25 | Ammon. Citrate, USP 5B bxs. | D | 5.60 |
| Sulfide, golden 500B bbls. | D | .19 | Benzaldehyde, tech. 945B drs. | | | Betanaphtholate, 5B bxs. | D | 3.20 |
| 336B kgs. | D | .17 | wks. | D | .75 | Citrate, USP 5B bxs. | D | 3.00 |
| Crimson, 500B bbls. | D | .38 | USP, 40B chys. | D | 1.50 | Nitrate, 25B jars. | D | 1.85 |
| 336B kgs. | D | .36 | FFC, 40B chys. | D | 1.75 | Oxychloride, 250 bbls. | D | 3.35 |
| Red, 500B bbls. | D | .43 | BENZENE, 90% 8000 gal. tanks | | | Phenolsulfonate, 5B cans. | D | 3.05 |
| 336B kgs. | D | .40 | wks. | gal | .25 | Salicylate, 250 bbls. | D | 1.95 |
| Tartrolactate, 500B bbls. | D | .45 | 110 gal. drs. wks. | gal | .30 | Subcarbonate, USP, 250 bbls. | D | 3.25 |
| Antipyrine, USP, 100B cases. | D | 3.15 | Pure, Tanks, wks. | gal | .27 | Subcarbonate, USP 250 bbls. | D | 3.25 |
| Apomorphine Hydrochloride, 1/4 oz. vis. oz. | | .16.65 | 110 gal. drs. wks. | gal | .33 | X-Ray diag. 1B bot. | D | 5.60 |
| Arecoline Hydrobromide, 1 oz. vial. oz. | | 8.00 | Benzidine Base, dry 250B bbls. | D | .86 | Subgallate, USP 175 bbls. | D | 2.65 |
| Argols, red powd. 350B bbls. | D | .07 | 10 bbl. lots. | D | .84 | Subiodide, 5B lots. | D | 4.55 |
| Argentic, metal 220B kgs. | D | .35 | Benzidine Sulfate, paste 350B | | | Subnitrate, USP, 250 bbls. | D | 2.75 |
| Red, 224B kgs. cases. | D | .15 3/4 | bbls. | D | .70 | Second Hands, bbls. or less. | D | 2.55 |
| White, 550B bbls. c/l NY. | D | .14 3/4 | Benzol, see Benzene | | | Cones, 1B bot. | D | 3.75 |
| Aspirin, see Acid Acetylsalicylic | | | Benzonaphthol, 5B boxes. | D | 2.00 | Subsalicylate, USP, 175 bbls. | D | 3.05 |
| Atropine Alk. USP 1 oz vial. | oz | 10.50 | Benzoyl Chloride, 500B drs. | D | 1.00 | Tannate 1B bot. | D | 2.58 |
| Sulfate, 5 oz. cans. | oz | 3.00 | Benzyl Acetate, 100B chys. | D | 1.25 | Bismuth Preparations quoted | | |
| Single ounce. | oz | 3.17 | Alcohol, 5B bot. | D | 1.50 | above on basis 25B lots. | | |
| BARIUM BINOXIDE, see Barium dioxide | | | Benzoate, 5B bot. | D | 1.50 | Smaller lots at an advance. | | |
| Carbonate, precip., 800B bbls. | | | Medicinal FFC. | D | 1.75 | Blanc Fixe, dry 400B bbls. wks. ton | 80.00 | 85.00 |
| wks. | ton | 70.00 | Chloride, 95% tech. 925B drs. | D | .30 | Imported, bbls. | ton | 65.00 |
| Imports, bbls. spot. | ton | 72.00 | 100B chys. | D | .35 | Paste, 650B bbls. | ton | 40.00 |
| Precip., 200B bbs. wks. | ton | 68.00 | Radistil. 100B chys. | D | .40 | BLEACHING POWDER, 700B drs. | | |
| Chloride, 300B bbls. wks. | ton | 90.00 | Formate, 1B bot. | D | 2.50 | c/l wks. | 100B | 1.90 |
| 200B bbs. wks. | ton | 88.00 | Berberine Hydrochloride, 1B bot. | D | 22.00 | Drums 1c/l ex-warehouse. | 100B | 2.40 |
| Import, bbls., spot. | ton | 80.00 | Sulfate, acid or neut. 1B bot. | D | 22.00 | Contract, c/l wks. | 100B | 1.00 |
| Dioxide, 88% 690B drs. | D | .17 | BETA-NAPHTHOL, 350B bbls. wks. | D | .26 | F. a. a. c/l. | 100B | ... |
| Import, 88-85% 400B drs. | D | .14 | Ton lots, wks. | D | .23 3/4 | Imported, spot. | 100B | ... |
| Hydrate, 500B bbls. | D | .05 3/4 | Sublimed. | D | .55 | Blue Ointment, see Mercury | | |
| Iodide, 5B box. | D | 5.15 | | | | Mass, see Mercury | | |
| Nitrate, 700B cases. | D | .10 | | | | Bone Ash, 100B kgs. | D | .08 |
| Import, cases. | D | .08 | | | | Black, 200B bbls. | D | .08 |
| Sulfocyanide 400B bbls. | D | .35 | | | | | | |
| Barytes, floated 350B bbls. | ton | 33.50 | | | | | | |



Soda Ash

Caustic Soda

Bicarbonate of Soda

Manufactured by

MICHIGAN ALKALI COMPANY

Sole Selling Agents

EDWARD HILL'S SON & CO.

21 EAST 40TH STREET, NEW YORK

Chemicals

| | | |
|--------------------------------------------------|------|-------|
| Borax, USP, cryst. 400 lb bbls...lb | .05¼ | .05¼ |
| Powdered, U.S.P., 300 lb bbls...lb | .05¼ | .05¼ |
| Kegs, USP, 100-150 lb...lb | .05¼ | .06 |
| Bordeaux Mixture, powd. bbls...lb | .12 | .15 |
| Paste, bbls...lb | .08 | .10 |
| Borneol, 1 lb bot...lb | | 3.50 |
| Bromide, see potash bromide, etc. | | |
| Bromine, bot. in 60 lb ea. wks...lb | | .39 |
| Bromobenzene, 600 lb drums...lb | .40 | .42 |
| Bromoform, USP 5 lb bot 50 lb ea. lb | | 1.50 |
| Bromostyrol, 25 lb kegs...lb | 4.00 | 4.25 |
| Brucine Sulfate, 100 ozs...oz | | .20 |
| Butter of Antimony, see Antimony Chloride | | |
| CADMIUM , metal 100 lb bbs...lb | 1.15 | 1.25 |
| Bromide, 50 lb cases jars...lb | | 1.10 |
| Iodide, 10 lb bot...lb | | 4.45 |
| Sulfide, ea. lb...lb | 1.50 | 1.60 |
| CAFFEINE ALK. USP 5 lb cans...lb | 3.75 | 4.25 |
| Second Hands...lb | | 3.75 |
| Hydrochloride, 1 lb bot...lb | 7.12 | 7.32 |
| Sulfate, 1 lb bot...lb | | 5.50 |
| Citrate, 25 lb cans...lb | 3.00 | 3.25 |
| Hydrobromide, 1 lb bot...lb | | 4.75 |
| CALCIUM Acetate, 150 lb bgs, c/l wks...lb | | 4.00 |
| Arsenate, 100 lb bbls. c/l wks. lb | .17 | .19 |
| Bbls. lc/l wks...lb | .18 | .21 |
| Bromide, 100 lb ea...lb | | .45 |
| Calcium Carbide, 220 lb dr c/lwks lb | | .04¼ |
| Drums lc/l wks...lb | | .05 |
| Carbonate, tech. 100 lb bags c/l...lb | 1.00 | 1.10 |
| USP, precip. 175 lb bbls...lb | | .04 |
| Chloride, solid, 650 lb drs. c/l f.o.b. NY...ton | | 24.50 |
| Gran., 350 lb drs. c/l f.o.b. NY...ton | | 30.50 |

CALCIUM CHLORIDE—(Continued)

| | | |
|-------------------------------------------------------------|------|-------|
| Flake 330 lb drs. c/l drs. f.o.b. NY...ton | | 30.50 |
| Anhyd., 350 lb drs. f.o.b. NY. lb | .12 | .13 |
| Glycerophosphate, 250 lb bbls...lb | 1.55 | 1.60 |
| Hydrate, (see Lime) | | |
| Iodide, 5 lb bot...lb | | 4.35 |
| Lactate, tech. 500 lb bbls...lb | | .13¼ |
| Nitrate, 220 lb bbls. c/l NY. ton | | 40.00 |
| Phosphate, tech. 350 lb bbls. lb | .09 | .10 |
| Phosphate, precip. tribasic 200 lb bbls, wks...lb | .12 | .13 |
| Phosphate, mono...lb | .07 | .09 |
| Sulfocarbonate, 100 lb kegs...lb | .53 | .60 |
| Calomel, see Mercury | | |
| CAMPHOR , Amer. ref. 250 lb bbls...lb | | .98 |
| 2¼ lb slabs, 100 lb ea...lb | | .97 |
| 1 lb cakes, 100 lb ea...lb | | .97¼ |
| 1 oz. tab., 1 lb ctns. 100 lb ea...lb | | 1.01¼ |
| ¼ oz. tab., 1 lb ctns. 100 lb ea...lb | | 1.02 |
| Jap. ref. 2¼ lb slabs, 100 lb ea...lb | .88 | .90 |
| 1 oz. tab., 100 lb ea. 1 lb tins...lb | | 1.00 |
| ½ oz. tab. 100 lb ea. 1 lb tins...lb | | 1.02 |
| Chinese ref. 2¼ lb slabs 100 lb ea...lb | | .90 |
| Crude, 100 lb ea...lb | .72 | .73 |
| Camphor, Monobrom. 100 lb ea...lb | 1.75 | 1.85 |
| Caramel, 50 gal. bbls...gal | .60 | .62 |
| Carbazol, 250 lb bbls...lb | .75 | .80 |
| Carbon Bisulfide, 500 lb dr., lc/l NY lb c/l drums, NY...lb | | .07 |
| Carbon Black, 12¼ lb bags, 150-225 lb cases...lb | .18 | .35 |

| | | |
|---------------------------------------------------------------------|-------|-------|
| Carbon Tetrachloride , 1400 lb dra. NY...lb | | .10¼ |
| Drums, c/l NY...lb | .09 | .09¼ |
| 700 lb dra. single NY...lb | | .10¼ |
| Carmine, No. 40 5 lb boxes...lb | 4.50 | 4.60 |
| Casein, edib. 100 lb keg...lb | .45 | .50 |
| Technical, 200 lb bbls...lb | .28 | .30 |
| Castoreum, 1 lb boxes...lb | 4.00 | 4.50 |
| Castor Oil, USP 50 gal. bbl...lb | | .14¼ |
| Cases, 80 lb 2 tins...lb | | .15 |
| Tech., see Fixed Oils | | |
| Caustic Potash , see potash, caustic Soda, see soda, caustic | | |
| Cerium Oxalate, USP 100 lb kgs. lb | .48 | .53 |
| Chalk, drop 175 lb bbls...lb | | .03¼ |
| Precip. light 175 lb bbls...lb | | .04¼ |
| Precip. heavy 560 lb casks...lb | .03¼ | .04 |
| Bulk...ton | 5.00 | 8.00 |
| Precip. English, 7 lb bags...lb | .08¼ | .08¼ |
| Charcoal , Bone, see bone black | | |
| Wood, powd. 100 lb bbl...lb | .04 | .05 |
| Willow, powd. 100 lb bbl...lb | .06 | .07 |
| China Clay, imp...ton | 16.00 | 22.50 |
| Domestic, fob Mine...ton | 15.00 | 17.50 |
| Chloral Hydrate, USP 100 lb drs. lb | .75 | .80 |
| 25 lb jars...lb | .76 | .81 |
| Chinoidin, 170 lb cases...lb | .65 | .75 |
| Chloramine-T, 5 lb bot...lb | 1.25 | 2.50 |
| Chlorosane, 5 lb bot...lb | .55 | .75 |
| Chlorhydrin, Ethylene anhyd. 600 lb drs...lb | .75 | .85 |
| 40% soln. 100 lb cbs...lb | .25 | .30 |
| CHLORINE , Liquid 2000 lb cyl. c/l wks...lb | .05¼ | .05¼ |
| Tank car lots wks...lb | .05¼ | .05¼ |
| 100 lb cyl. c/l...lb | | .06 |
| 100 lb cyl. lc/l wks...lb | .06¼ | .07 |
| 100 lb cyl. lc/l, ex-warehouse...lb | | .09 |
| Chlorobenzene, mono. 1000 lb drs. wks...lb | .11 | .12 |
| Dra. c/l wks...lb | .10 | .11 |
| Tank car lots wks...lb | | .09 |
| CHLOROFORM , USP 50 lb drs...lb | | .35 |
| Second Hands, 650 lb drs...lb | .32 | .34 |
| Technical, 650 lb drums...lb | .32 | .33 |

**STANDARD
WARNER
CHEMICALS**
EST. 1886

ACETIC ANHYDRIDE
92-95%
(Free of Phosphorus, Chlorine and Sulphur)

ACETYL CHLORIDE

ACID PHOSPHORIC 50%

CAUSTIC SODA, SOLID
76/78% N. Y. & L.

CARBON TETRACHLORIDE

CARBON DISULPHIDE

SODIUM PHOSPHATE
All Grades

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Manufacturers
52 Vanderbilt Avenue, New York
Telephone Murray Hill 0262

Plants
Carteret, N. J. South Charleston, W. Va.

E.B.G.

Liquid Chlorine

Service is not alone what you are capable of doing if called upon—

But what you do voluntarily and without reserve.

E. B. G. frequently has been called upon to perform what seemed impossible tasks, and has earned a reputation for accomplishment when it has been physically possible to overcome the obstacles which presented themselves.

Electro Bleaching Gas Co.
PIONEER MANUFACTURERS OF LIQUID CHLORINE
Plant, NIAGARA FALLS, N.Y.
Main office 18 East 41st Street New York. Chicago office 105 W. Monroe St.

Chemicals

| | | |
|--------------------------------------------------------------|------|---------|
| Chromium Acetate, 20° soln. 400 lb | .08 | : .10 |
| Fluoride, Powd. 400 lb bbls. | ... | : .30 |
| Soln. 400 lb bbls. | ... | : .09 |
| Sulfate, 400 lb bbls. | .07 | : .09 |
| Chrysarobin, USP 5 lb cans. | 2.00 | : 3.00 |
| Cinchonidin alk., powd. 100 oz. tins | ... | : .70 |
| Crystal | ... | : .75 |
| Sulfate, 100 oz. tins. | .49½ | : .50 |
| Cinchonine, alk., powd. 100 oz. tins | ... | : .38 |
| Crystal | ... | : .43 |
| Sulfate, 100 oz. tins. | ... | : .35 |
| Cinnamic Alcohol, see Alcohol Cinnamic | | |
| Cinnamic Aldehyde, 1 lb bot. | 3.20 | : 3.50 |
| Citral, 25 lb cans. | 2.75 | : 3.00 |
| Citrine Ointment, see Mercury | | |
| Citronellal, 1 lb bot. | 2.00 | : 2.25 |
| Citronellol, 1 lb bot. | 8.00 | : 14.00 |
| Cobalt Oxide, 100 lb kegs. | 2.75 | : 2.85 |
| Cobalt Oxide, 500 lb bbls. | ... | : 2.10 |
| 10 lb tins 200 lb cases. | ... | : 2.35 |
| COCAINE alk., USP, 1 oz. vial. | ... | : 11.00 |
| Hydrochloride, USP—1 oz. vials. | ... | : 7.07 |
| 25 oz. | ... | : 7.50 |
| In ¼ oz. vials. | ... | : 7.50 |
| In crystals, granular, powder, or flaky crystals as desired. | ... | |
| Cocoa Butter, bulk, 200 lb bales. | .27½ | : .30 |
| Fingers, cakes, etc. 12 lb bxs. | .36½ | : .37½ |
| CODEIN alk., 5 oz. cans 10 oz. lots | ... | : 7.30 |
| Hydrobromide, 10 oz. | ... | : 5.85 |
| Hydrochloride, 10 oz. | ... | : 6.55 |
| Nitrate, 10 oz. | ... | : 6.55 |
| Phosphate, 10 oz. | ... | : 5.50 |
| Salicylate, 10 oz. | ... | : 5.50 |
| Sulfate, 10 oz. | ... | : 5.55 |
| Small Sizes. ¼ oz. vials. 50c extra. | | |
| ¾ oz. 25c extra, singles 7c extra | | |
| per oz.—25 oz. lots, 10c oz. cheaper | | |
| than above. Less than 10 oz. 15c oz. | | |
| higher than above. | | |

| | | |
|---------------------------------------------|-------|---------|
| COD LIVER OIL, Norwegian, 30 gal. | | |
| bbls. | 24.00 | : 25.50 |
| Newfoundland, 30 gal. bbls. | ... | : .30 |
| Colchicine alk., USP 1 oz. vial. | ... | : 30.00 |
| Salicylate, 1 oz. vial. | ... | : 45.00 |
| Colloidal, USP 30 lb drums. | .22 | : .23 |
| Flexible, USP 30 lb drums. | .27 | : .28 |
| COPPER, metal electrolytic c/l | | |
| NY | 15.25 | : 15.37 |
| Lake, c/l NY. | 15.37 | : 15.50 |
| Casting, c/l NY. | 14.75 | : 15.00 |
| Carbonate, 400 lb bbls. | .19 | : .19½ |
| Chloride, 250 lb bbl. | ... | : .30 |
| Cyanide, 100 lb drums. | .58 | : .60 |
| Iodide, 5 lb bot. | ... | : 5.65 |
| Oxide, 1000 lb bbls. ton lots. | ... | : .20 |
| Sub-Acetate, verd. 440 lb bbls. | .35 | : .37 |
| SULFATE, crys. 450 lb bbls. 1c/l | | |
| spot | 5.90 | : 6.00 |
| Carlots, bbls. f.o.b. NY. 100 lb | 5.70 | : 5.80 |
| Carlots, bbls., delivered. 100 lb | 5.80 | : 5.90 |
| Imp. 350 lb cks. | 5.25 | : 5.50 |
| Powdered, 350 lb 5 bbls. | ... | : .07 |
| Copperas, bulk c/l wks. | 20.00 | : 21.00 |
| 400 lb bbls. c/l wks. | ... | : 25.00 |
| 200 lb bgs. c/l wks. | ... | : 25.00 |
| Powdered, bbls. | 1.90 | : 2.00 |
| Corn Syrup, 42 deg. 50 gal. | ... | : 3.36 |
| bbls. | ... | : 3.41 |
| 43 deg. 50 gal. bbls. | ... | : 3.41 |
| Corrosive Sublimate, see Mercury Dichloride | | |
| Cotton Soluble, 100 lb bbls. wet. | .40 | : .42 |
| Coumarin, 25 lb tins. | 4.50 | : 4.75 |
| Second Hands | ... | : 4.40 |
| CREAM TARTAR, USP, 300 lb | | |
| bbls. | ... | : 26½ |
| Imp. powd. USP, 224 bbls. | .25½ | : .26 |
| Creosote, USP, 42 lb chys. | .50 | : .55 |
| Creosote Oil, 50 gal. drs. | .20 | : .23 |
| Carbonate, 1 lb bot. 25 lb. | 1.80 | : 2.00 |
| Cresol, USP, 400 lb bbls. | .25 | : .27 |

| | | |
|-------------------------------------|------|---------|
| Cyanamide, bulk c/l wks. Amm. unit | ... | : 3.25 |
| DIAMINOPHENOL, 100 lb kegs. | ... | : 3.80 |
| Dianisidine, 100 lb kegs. | ... | : 4.60 |
| Dichlorobenzene, 1000 lb drs. | .06 | : .07½ |
| Diethylaniline, 850 lb drs. | .60 | : .65 |
| Diethyl Phthalate, 25 lb cans. | .65 | : .75 |
| Diethyl Sulfate tech. 50 gal. drs. | .20 | : .25 |
| CP drums | .40 | : .50 |
| Digitalis, Pure, 1 oz. vial. | 7.75 | : 8.25 |
| Dimethylaniline, 840 lb drs. wks. | .42 | : .43 |
| Dimethylsulfate, 100 lb drs. | ... | : .50 |
| Dinitrobenzene, 400 lb bbls. | .19½ | : .20 |
| Dinitrochlorobenzene, 400 lb bbls. | .19½ | : .20 |
| Dinitronaphthalene, 350 lb bbls. | .32 | : .34 |
| Dinitrophenol, 350 lb bbls. | ... | : .40 |
| Dinitrotoluene, 300 lb bbls. | .19 | : .21 |
| Dionin, see Morphine, Ethyl | | |
| Diphenylamine, 250 lb bbls. | .48 | : .50 |
| Diphenylchloride, 500 lb drums. | .85 | : .90 |
| Dover's Powder, USP 5 lb tins. | 2.20 | : 2.30 |
| Duboisine Sulfate, 1 oz. vial. | ... | : 60.00 |
| EARTH, Diatomaceous, see Kieselguhr | | |
| Emetine, alk., 15 gr. vials. | ... | : 1.85 |
| Hydchlide, USP 1 oz. vial. | ... | : 19.00 |
| 15 gr. vials. | .75 | : .90 |
| EPSON SALT, tech. 300 lb bbls. | | |
| NY | ... | : 2.15 |
| Bbls. c/l NY. | ... | : 2.00 |
| 100 lb bgs. c/l NY. | ... | : 1.80 |
| Imp., 220 lb bgs. c/l | | |
| NY | 1.00 | : 1.10 |
| USP, 300 lb bbls. 10 bbls. 100 lb | ... | : 2.50 |
| Carlots, bbls. | 2.35 | : 2.50 |
| Imported, 400 lb bbls. 100 lb | 1.90 | : 2.00 |
| Ergotin, Bonjean, 1 lb jars. | 9.50 | : 10.00 |
| Eserine alk., 1 oz. vial. | ... | : 30.00 |
| Salicylate, USP 1 oz. vial. | ... | : 20.00 |
| Sulfate, USP VIII, 1 oz. vial. | ... | : 15.00 |

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New York

Chemicals

| | | | | | | | | |
|--------------------------------------|------|---------------|--------------------------------------|--------|---------------|-------------------------------------|-------|---------|
| ETHER, USP 55 lb drums.....D | .13 | : .15 | Fluorspar, 95% 220 lb bgs. ex | | | GLYCERIN, C. P. 550 lb drums.D | .17½ | : .18 |
| Anaesthesia, 55 lb drums.....D | ... | : .16 | dock | ton | : 25.00 | Cans, 50 lb | .19 | : .19½ |
| USP, 1880 55 lb drums.....D | ... | : .38 | 96% bgs. | ton | : 33.50 | Dynamite, 1000 lb drs.....D | ... | : .16 |
| Washed, 55 lb drums.....D | ... | : .30 | 98% bgs. | ton | : 35.00 | Saponification, tanks.....D | .12 | : .12½ |
| Motor, 1 lb cans.....D | .26 | : .27 | FORMALDEHYDE, USP 400 lb bbls. | | | Soap, Lye, tanks.....D | .10½ | : .11 |
| Ether, Nitrous, 1 lb bot.....D | .92 | : .95 | c/l wks. | D | : .15 | Goa Powder, see chrysarobin | | |
| Ethyl Benzyl Aniline, 300 lb drs.D | ... | : 1.30 | Carboys, 100 lb lc/l wks.....D | ... | : .16 | Graphite, crude 220 lb bags.....ton | 15.00 | : 35.00 |
| Ethyl Acetate, 99%, 50 gal. drs.gal | 1.05 | : 1.15 | Bbls. 400 lb lc/l wks.....D | ... | : .16 | Flake, 500 lb bbls.....D | .06 | : .10 |
| 85-90% Ester, 50 gal. drs.gal | ... | : .95 | Second Hands | D | : .14½ | Ground, lump, bbls.....D | .04 | : .05 |
| Carlots, drums | gal | : .92 | Fuller's Earth, 200 lb bgs. c/l | | | Gualacol liquid, USP 25 lb cans.D | 2.50 | : 2.60 |
| Tank Cars | gal | : .90 | mines | ton | 15.00 : 17.00 | Benzoate, 1 lb bot.....D | ... | : 18.00 |
| Pure, 5 lb bot.....gal | ... | : 3.50 | Imported, 230 lb bags NY.....ton | 35.00 | : 40.00 | Carbonate, 5 lb boxes.....D | 5.00 | : 5.25 |
| Benzoate, 5 lb bot.....D | 1.85 | : 2.00 | Fusel Oil, refined, 100 gal drm.gal | ... | : ... | HAARLEM OIL, Dom. 6 gr. ex.gross | ... | : 3.50 |
| Bromide 115 lb drs.....D | ... | : .40 | Crude, 100 gal drum.....gal | ... | : ... | Imported, 5 gr. cases.....gross | 5.20 | : 5.25 |
| Butyrate, 5 lb bot.....D | 2.00 | : 2.25 | G. SALT, paste 350 lb bbls. basic | | | Halazone, 5 lb bot.....D | 2.75 | : 3.25 |
| Chloride, 15 lb cyl.....D | ... | : .35 | 100% | D | : .65 | Hellotropin, 10 lb bot.....D | 1.75 | : 2.75 |
| Cinnamate, 1 lb bot.....D | 4.50 | : 5.00 | Gelatin, USP silver bbl. 100 lb cs.D | ... | : .90 | Hexamethylenetetramine, USP | | |
| Formate, 5 lb bot.....D | .95 | : 1.00 | Gold Label, 100 lb cases.....D | ... | : ... | 100 lb drums | .95 | : 1.00 |
| Methyl Ketone, 50 gal. drums.D | .25 | : .25½ | Technical, 100 lb cs.....D | ... | : .65 | Imported | .80 | : .85 |
| Morphine, see Morphine, Ethyl | | | Geraniol, 50 lb cans.....D | ... | : 2.75 | Rubber Makers, Impalp. Pd. | | |
| Valerate, 5 lb bot.....D | 4.50 | : 4.75 | Geranyl Acetate, 1 lb bot.....D | ... | : 4.25 | dra, | D | : .95 |
| Ethylene Bromide, 600 lb drs.....D | ... | : .60 | GLAUBER'S SALT, tech. 300 lb bags | | | Homatropine Hydrobrom. USP 1 oz. | | |
| Glycol | .65 | : 1.00 | c/l wks. | 100 lb | 1.15 : 1.25 | vial | os | : 16.00 |
| Chlorhydrin, anhyd. 50 gal drs.D | .75 | : .85 | 350 lb bbls. c/l wks.....100 lb | 1.30 | : 1.40 | Five ozs., 1 oz. vials.....os | ... | : 15.00 |
| 40% Solution, 50 gal. bbls.D | .25 | : .30 | Bbls. lc/l wks.....100 lb | 1.50 | : 1.75 | Hydrastine Alk., USP, 1 oz. vial.os | ... | : 20.00 |
| Dichloride, 50 gal. drs.....D | .30 | : .35 | Imported, bbls. spot.....100 lb | .90 | : 1.00 | Hydchlde, USP, 1 oz: vial.....os | ... | : 20.00 |
| Eucalyptol, 25 lb cans.....D | .80 | : .85 | USP, 300 lb bbls. imp. sp.100 lb | ... | : 1.25 | Sulfate, 1 oz. vial.....os | ... | : 22.00 |
| Eugenol, 25 lb cans.....D | 2.85 | : 3.25 | USP, 300 lb bbls. dom. sp.100 lb | ... | : 1.75 | Hydrastine Hydchlde, USP 16 gr. | | |
| Feldspar, bulk | ton | 20.00 : 25.00 | USP, 300 lb bbls. c/l wks.100 lb | ... | : 1.40 | vials | vial | : 2.40 |
| FERRIC CHLORIDE, tech. crys. | | | Glucose, (Grape Sugar) dry, 100 | | | Hydrasobenzene, 100 lb bags.....D | 1.90 | : 1.95 |
| 475 lb bbls. | D | : .08 | 70° bags, c/l NY.....100 lb | 3.11 | : 3.14 | HYDROGEN PEROXIDE, 25 vol.400 lb | | |
| Imported | D | : .07 | Syrup, Drs. & bbls. c/l NY100 lb | ... | : 3.36 | bbls. | D | : .10 |
| USP, crys. 100 lb kegs.....D | ... | : .09 | lc/l NY | 100 lb | : 3.54 | USP Soln. 375 lb bbls.....D | .05 | : .05½ |
| Imported | D | : .08 | GLUE, pure white, bbls.....D | .30 | : .35 | USP bot. 4 oz. cases.....gross | 8.00 | : 8.25 |
| Tech. Sol'n 40° 140 lb clys.D | ... | : .06 | Medium white, bbls.....D | .25 | : .30 | Bot. 8 oz. cases.....gross | 11.75 | : 12.00 |
| 48°, 140 clys.....D | ... | : .08 | French, bbls. | .18 | : .25 | Bot. 16 oz. cases.....gross | 19.75 | : 20.00 |
| USP Sol'n 125 lb clys.....D | ... | : .06½ | High Grade, bbls.....D | .35 | : .40 | Hydroquinone, 100 lb kegs.....D | 1.00 | : 1.15 |
| Ferrous Chloride, crys. tech. | | | Bone, regular, bbls.....D | .10 | : .12 | Hyocine Hydrobrom. USP 1 oz. | | |
| 475 lb bbls. | D | : .06 | Fish, bbls. | gal | 1.50 : 1.75 | vial | os | : 21.00 |
| Ferrous Sulfide, 1000 lb bbls.100 lb | 2.50 | : 3.00 | | | | Five ozs., 1 oz. vials.....os | ... | : 20.50 |
| Flake White, see lead, white | | | | | | | | |

R&H

CHEMICALS

Sodium Sulphide
Fused
Copper Sulphate
Acetate of Soda

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Accordingly they are the standard of comparison for sellers.

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Experience is indeed a great teacher.

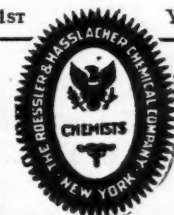
41ST

YEAR

The ROESSLER & HASSLACHER
CHEMICAL CO.

709 SIXTH AVENUE

NEW YORK



Chemicals

| | | | | | | | | |
|---------------------------------------|-------|---------|-------------------------------------|-------|---------|--------------------------------------|-------|---------|
| Hyoscamine Alk. Cryst., 1 oz. vial.oz | ... | 35.00 | LANOLIN, see Adeps Lanæ | | | Litharge, see lead oxide | | |
| Alkaloid, Amorphous, 1 oz. vial.oz | ... | 75.00 | LEAD, metal, c/l NY.....100lb | 7.25 | : 7.35 | Lithium Carb. USP 100lb kgs..lb | 1.50 | : 1.60 |
| Hydrobromide, USP 1 oz. vial.oz | ... | 60.00 | Acetate, white crystals 500lb | | | Bromide, 100lb cs.....lb | 1.70 | : 1.80 |
| Sulfate, 1 oz. vial.....oz | ... | 35.00 | bbbs. wks.....lb | ... | .14 | Citrate, USP 100lb kgs.....lb | 1.60 | : 1.70 |
| INDOL, C. P. 1 oz. bot.....oz | 8.50 | : 9.00 | 100 to 250lb kgs. wks..lb | ... | .14% | Iodide, 5lb bot.....lb | ... | 5.40 |
| Iodides, see Potas. Iodide, etc. | | | White, broken, bbbs. wks.100lb | ... | 13.40 | Lithopone, 400lb bbbs. lb/l wks..lb | .07% | .08 |
| IODINE, crude, 200lb kgs.....lb | 3.90 | : 3.95 | White, gran., bbbs., wks.100lb | ... | 13.65 | Bbbs. c/l wks.....lb | ... | .07 |
| Resublimed, 10lb jars.....lb | ... | 4.55 | White, powd., bbbs. wks.....lb | ... | .14% | Imported, 400lb bbbs.....lb | .06 | : .06% |
| Tincture, USP, 50 gal. bbbs. gal | 4.50 | : 4.60 | Kegs, wks.....lb | ... | .15% | Litmus Cubes.....lb | .90 | : 1.00 |
| Carboys.....gal | 4.75 | : 4.85 | Brown, broken, bbbs. wks..lb | ... | .12% | MAGNESITE, crude.....ton | ... | 15.00 |
| Iodoform, powd. 10lb bot.....lb | ... | 6.00 | USP, 100lb kgs.....lb | ... | .20 | Calcined, 500lb bbbs.....ton | ... | 55.00 |
| Crystals, 10lb bot.....lb | ... | 7.00 | Arsenate, 100lb bbbs. lb/l wks..lb | .25 | : .26 | Magnesium mtll., sticks 100lb cs..lb | 1.25 | : 1.30 |
| Ionone, (violet) 1lb bot.....lb | 5.00 | : 9.00 | Bbbs. c/l wks.....lb | .21 | : .24 | Carb. tech. 70lb bags NY.....lb | .08 | : .08% |
| Iridium, metal 10oz lots.....oz | ... | 250.00 | Paste, 600lb bbbs.....lb | .12 | : .15 | 75lb bbbs. NY.....lb | .08% | .09 |
| Iron, metal by hydrogen 1 lb bot..lb | .65 | : .70 | Iodide, USP VIII 5lb bot.....lb | 3.20 | : 3.40 | USP, 60lb bbbs.....lb | .10 | : .11 |
| IRON & AMM. CITRATE, USP 25lb | | | Nitrate, 500lb bbbs. wks.....lb | ... | .32 | USP, blocks 100lb cs. 1, 2, 4 | | |
| cans.....lb | ... | .84 | Oxide, lithge., 500lb bbbs..100lb | 10.90 | : 11.15 | cs.....lb | .19 | : .23 |
| Green scales, 25lb cans.....lb | ... | .84 | Oxide, red 500lb bbbs. wks..lb | 11.40 | : 11.65 | Chloride, fused 575lb dra. c/l | | |
| Cacodylate, 10lb bot.....lb | 9.00 | : 9.25 | Peroxide, 100lb drs.....lb | ... | .14% | wks.....ton | ... | 34.00 |
| Citrate, USP VIII 25lb cans..lb | ... | .99 | White, basic carb. 500lb bbbs. | | | Flaked, 350lb dra. wks.....ton | ... | 36.00 |
| Chloride, see ferric or ferrous | | | wks.....lb | .09% | : .10 | Imp., fused 900lb bbbs. NY.ton | 26.00 | : 28.00 |
| Hypophosphite, 5lb cans.....lb | 1.50 | : 1.60 | Bbbs. c/l wks.....lb | ... | .09% | Fluocillate, crystals 400lb bbbs. | | |
| Syrup, USP VIII.....lb | ... | .30 | 100lb kgs wks.....lb | ... | .14% | wks.....lb | ... | .15 |
| Iodide, 1lb bot.....lb | ... | 4.30 | White, sulfate 500lb bbbs. wks..lb | .09% | : .09% | 30% soln., 500lb bbbs. wks..lb | .07 | : .07% |
| Syrup, USP 5lb bot.....lb | .35 | : .36 | Bbbs. c/l wks.....100lb | ... | 9.25 | Soln. bbbs. c/l wks.....lb | ... | .06 |
| Nitrate, kgs.....lb | .09 | : .10 | Licorice Ext. Mass, cases.....lb | .25 | : .26 | Glycerophosphate, 5lb tins.....lb | ... | 3.35 |
| Com'l., bbbs.....100lb | 2.75 | : 3.25 | Compound powder, bbbs.....lb | .11 | : .13 | Hypophosphite, 5lb cans.....lb | ... | 1.15 |
| Oxalate, scales 25lb cans.....lb | .80 | : .82 | Powdered.....lb | .38 | : .40 | Oxide, USP light 100lb bbbs..lb | ... | .45 |
| & Ammon. Oxalate, 25lb bxs..lb | .45 | : .50 | Sticks, 1 oz. 100lb cases.....lb | .45 | : .50 | USP, heavy 250lb bbbs.....lb | ... | .50 |
| & Potassium Oxalate, 25lb bxs..lb | .47 | : .48 | LIME (Salts, see Calcium Salts) | | | Peroxide, 5lb cans.....lb | ... | 2.15 |
| & Sodium Oxalate, 25lb bxs..lb | .40 | : .42 | Live, 325lb bbbs. ton lots, wks..lb | ... | .01% | Perborate, 1lb tins.....lb | ... | 2.25 |
| Phosphate, USP 25lb cans.....lb | ... | .89 | Single bbl. wks.....lb | ... | .01% | Salicylate, 100lb kgs.....lb | ... | .80 |
| Pyrophosphate, USP 25lb | | | Hydrated, 187lb bbl, ton lots, | | | Sulfate, see Epsom Salts | | |
| cans.....lb | .90 | : .97 | wks.....lb | ... | .01% | Manganese Chloride, 600lb csk. | | |
| iso-Eugenol, 1lb bot.....lb | 4.25 | : 5.00 | Single bbl, wks.....lb | ... | .01% | NY.....lb | .09% | : .10 |
| JALAP RESIN, lump 5lb tins..lb | 3.35 | : 3.35 | Oyster Shell, 150lb bbl, single..lb | ... | .03 | Borate, 30%, 200lb bbbs.....lb | ... | .36 |
| Powd., tins.....lb | 3.49 | : 3.49 | 125lb bag.....lb | ... | .03 | 100lb kgs.....lb | ... | .37 |
| KIESELGUHR, 90lb bags NY.....ton | 60.00 | : 70.00 | Sulfur, dry 200lb dra. NY.....lb | .08 | : .10 | Dioxide, 80-84% 900lb bbbs. | | |
| | | | Dra. c/l NY.....lb | ... | .10% | NY.....ton | 80.00 | : 85.00 |
| | | | 33% Soln. 50 gal. bbbs. NY.gal | .15 | : .16 | 85-90%, 900lb bbbs. NY.ton | 85.00 | : 90.00 |
| | | | Linalool, 5lb bot.....lb | 7.00 | : 7.25 | Hydrated, precip. 100lb kgs..lb | .32 | : .35 |
| | | | Linalyl Acetate, 1lb bot.....lb | 7.00 | : 10.00 | | | |
| | | | Benzoate, 1lb bot.....lb | 13.00 | : 14.00 | | | |



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Oxalic Acid Formic Acid 90%

manufactured by

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PRODUCTEN**

Schiedam, Holland

Chemicals

| | | | | | | | | |
|------------------------------------------|-------|-------|-------------------------------------------------------|-------|-------|-----------------------------------------|------|------|
| Manganese—(continued) | | | METHANOL (Wood Alcohol) | | | NAPHTHA, Solvent, 110 gal. dra. | | |
| Glycerophosphate, 5 lb. tins.... | 3.05 | | 95%, 50 gal. drms. ext.... | 1.12 | 1.16 | whs. | ... | ... |
| Hypophos, USP VIII 5 lb. cans. lb. | 1.65 | | 97%, 50 gal. drms. ext.... | 1.14 | 1.17 | 8000 gal. tank cars whs. | ... | ... |
| Iodide, 1 lb. bot. | 6.40 | | Pure, 50 gal. drms. ext.... | 1.80 | 1.85 | | | |
| Ore, bulk NY. | .40 | .45 | Acetone free, 50 gal. drms. ext. gal. | 1.25 | 1.40 | NAPHTHALENE, Flaks, 175 lb. bbls. | | |
| Sulfate, 600 lb. sacks NY.... | .10 | .11 | Bbls. incl. 5c higher | | | whs. | .07% | |
| Marble Flour, bulk. | 10.00 | 12.00 | Methyl Acetone, 100 gal. drums. gal. | ... | .85 | Bbls. c/l whs. | .07 | |
| See also Calcium Carbonate | | | Tank cars | ... | .80 | Bbls., second hands NY.... | .09 | .09% |
| MENTHOL, USP, 60 lb. cases.... | 7.75 | | Anthranilate, 1 lb. bot. | 8.50 | 4.50 | Balls, 250 lb. bbls. whs. | ... | .08 |
| Less cases, 5 lb. tins.... | 8.00 | 8.10 | Chloride, 90 lb. c/l. | ... | .50 | Bbls. c/l whs. | ... | .07% |
| MERCURY, metal 75 lb. flask. flask | 69.00 | 69.50 | Cinnamate, 1 lb. bot. | 4.00 | 4.50 | Bbls., second hands, NY.... | .10 | .11 |
| Less Flasks, 5 lb. jugs.... | 1.02 | 1.04 | Paracresol, 1 lb. bot. | 8.00 | 9.00 | Crushed bgs. whs. | ... | .06% |
| Bichloride, cryst. 25 lb. bxs. lb. | 1.17 | | Salicylate, USP, 50 lb. cases.... | .57 | .62 | Crude, imp. bgs. | .03% | .04 |
| Gran. powd., 200 lb. kegs. lb. | 1.02 | | 500 lb. drums | .55 | .60 | Nerolin, 1 lb. tins. | 1.75 | 2.00 |
| Bisulfate, 25 lb. boxes.... | .86 | | Second Hands, cases.... | ... | ... | Nickel Metal, electrolytic 100 lb. | ... | ... |
| Blue Mass, 25 lb. boxes.... | .62 | | Methylene Blue, tech. 100 lb. kgs. lb. | 1.00 | 1.50 | kegs. | .30 | |
| Powdered, 25 lb. boxes.... | .64 | | USP, medicinal 5 lb. cans. | 2.25 | 2.60 | Ingot, 100 lb. kegs. | .29 | .33 |
| Blue Ointment, USP 25 lb. cans | | | Michler's Ketone, 225 lb. bbls. lb. | ... | 3.75 | Salt, single 400 lb. bbls. NY. lb. | .07% | .11% |
| 50% | .80 | | Milk, powd. 150 lb. bbls. | .14 | .15 | Double, 400 lb. bbls. NY.... | .08 | .10% |
| USP, dilute 25 lb. cans 30% lb. | .63 | | Milk Sugar, see sugar of milk | | | Oxide, 100 lb. kegs NY.... | .40 | .43 |
| 33 1/3% Mercury | .67 | | Mineral Oil, see oil mineral | | | Nitre Cake, bulk whs. | 6.50 | 8.00 |
| Calomel, 50 lb. bxs. | 1.25 | | Mono-chlorobenzene, see chlorobenzene | | | 500 lb. bbls. | 9.00 | 9.75 |
| Citrine Ointment 25 lb. jars. lb. | .50 | | Monoethylamine, 900 lb. drs. lb. | ... | 1.00 | Nitrobenzene, crude 1000 lb. dra. | ... | .09% |
| Iodide, green 25 lb. jars.... | 4.00 | | Monomethyl paramidophenol sulfate | ... | 4.00 | whs. | .10 | .11 |
| Red, USP 25 lb. jars.... | 4.10 | | 100 lb. drs. | ... | 5.35 | Redistilled, 1000 lb. dra. whs. lb. | .20 | .21 |
| Yellow, USP VIII 25 lb. jars. lb. | 4.00 | | MORPHINE Sulfate, USP 5 oz. tins | ... | 5.35 | Nitrosophthalene, 550 lb. bbls. lb. | .14 | .15 |
| Red Precip. USP 25 lb. bxs. | 1.38 | | 10 oz. | ... | 5.35 | Nitrotoluene, mixed 1000 lb. dra. | ... | ... |
| Powder, USP 25 lb. bxs. | 1.48 | | Acetate, 5 oz. tins 10 oz. lots. oz. | ... | 5.35 | whs. | ... | ... |
| White Precip. USP 25 lb. bxs. | 1.40 | | Hydrobromide, 5 oz. tins 10 oz. lots | ... | 5.35 | Oil Fuel, see Fuel Oil | | |
| Powder, USP 25 lb. bxs. | 1.54 | | lots | ... | 5.35 | OIL MINERAL, wh. 50 gal. bbls. gal. | 1.00 | 1.25 |
| With chalk, USP 25 lb. bxs. | .62 | | Hydride, 5 oz. tins 10 oz. lots | ... | 5.35 | Oil Mirbane, see nitrobenzene | | |
| Meta-Nitroaniline, 300 lb. bbls. lb. | .78 | .80 | lots | ... | 5.35 | Optum, see crude drugs | | |
| Meta-Nitro-para-Toluidine, 300 lb. bbls. | ... | 2.25 | Diacetyl Alk. 1/2 oz. via 10 oz. | ... | 8.95 | Orange Mineral, 300 lb. cases NY. lb. | .15% | .16 |
| Meta-Phenylenediamine, 300 lb. bbls. | .90 | .95 | oz. | ... | 8.10 | 500 lb. bbls. NY.... | .15% | .16% |
| Meta-Toluylenediamine, 300 lb. bbls. | .90 | .95 | Hydride, 1/2 oz. via 10 oz. via 10 oz. | ... | 9.45 | Ortho-Aminophenol, 50 lb. kegs. lb. | ... | 3.00 |
| | | | lots in 5 oz. tins, 10 oz. via 10 oz. via 10 oz. | ... | 9.45 | Ortho-Anisidine, 100 lb. drs. | ... | ... |
| | | | Small Sizes: 1/2 oz. via 10 oz. via 10 oz. via 10 oz. | ... | 9.45 | Ortho-Dichlorobenzene, 1000 lb. dra. | .08 | .08 |
| | | | 1/4s 25c extra; single oz. via 10 oz. via 10 oz. | ... | 9.45 | whs. | ... | ... |
| | | | lots in 5 oz. tins, 10 oz. via 10 oz. via 10 oz. | ... | 9.45 | Ortho-Nitrochlorobenzene, 1200 lb. dra. | .18 | .20 |
| | | | 15c oz. higher than above schedule. | ... | 9.45 | whs. | ... | 1.25 |
| | | | Musk Ambrette, 1 lb. cans. | 14.50 | 16.50 | Ortho-Nitrophenol, 350 lb. bbls. lb. | ... | ... |
| | | | Ketone, 1 lb. cans. | 13.00 | 14.00 | | | |
| | | | Xylene, 5 lb. cans. | 2.75 | 3.00 | | | |

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Ammonium Persulfate, 98%
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Nickel Formate
Potassium Binoxalate
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Sodium Oxalate
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Chemicals

| | | | | | |
|-------------------------------------------------------------------|-------------------|-------------------------------------------------------------------|---------------|----------------------------------------------------------------------|-------------------|
| Ortho-Nitrotoluene, 1000 lb. drs. wks. | .09 : .10 | Para-Phenylenediamine, 350 lb. bbis. | 1.45 : 1.55 | Phosphorus, red 110 lb. cs. wks. | ... |
| Ortho-Tolidine, 350 lb. bbis. | .14 : .16 | Para-Toluene-Sulfonamide, 175 lb. bbis. | .40 : .41 | Imported, 112 lb. cases. | ... |
| Oxgall, USP 5 lb. bot. | 3.00 | Para-Toluene-Sulfonchloride, 410 lb. bbis. wks. | .25 : .30 | Yellow, 110 lb. cs. wks. | .35 |
| PALLADIUM, metal 10 oz. lots or Pancratin, USP 5 lb. bot. | 1.25 : 1.40 | Para-Tolidine, 350 lb. bbis. wks. | .90 : 1.00 | Imported, 112 lb. cases. | .30 |
| Papain, 1 lb. bot. | 2.15 : 2.25 | PARIS GREEN Arsenic Basis, 500 lb. kegs. | .29 : .31 | Phosphorus Trichloride, 175 lb. cyl. wks. | .45 |
| Paraffin, ref'd 200 lb. cs. slabs 120-125 Deg. M. P. | .03 1/4 : .03 1/4 | Kegs, 100 lbs. | .33 | Phthalic Anhydride, 175 lb. bbis. | .32 |
| 125-130 Deg. M. P. | .04 : .04 1/4 | Kits, 56, 28, 14 lbs. | .32 : .34 | Pilocarpine Hydrochloride, USP 25 oz. lots, 1 oz. vials. | 5.50 |
| 130-135 Deg. M. P. | .04 : .04 1/4 | Packages, 5 and 2 lb. | .33 : .35 | Nitrate | 5.50 |
| 135-140 Deg. M. P. | .05 : .06 1/4 | Packages, 1 lb., 1/2, 1/4 lb. | .35 : .40 | Single ounces | 5.75 |
| Para-Aminoacetanilid, 100 lb. kegs. | 1.05 : 1.15 | Paris White, see whitening, French Pepsin, USP 5 lb. bot. | 2.25 : 2.50 | Alkaloid, 15 gr. vials. | .75 |
| Para-Aminophenol, 100 lb. kegs. | 1.50 | PETROLATUM, green 300 lb. bbis. | .02 1/4 : .03 | Piperazine Hydrate, 1 lb. bot. | 16.00 |
| Hydrochloride, 100 lb. kegs. | 1.75 | Dark Amber 300 lb. bbis. | .03 1/4 : .04 | Pitch, Coal-Tar, wks. | 30.00 |
| Para-Dichlorobenzene, 50-300 lb. bbis. wks. | .17 : .20 | Light Amber, 300 lb. bbis. | .04 1/4 : .05 | Plaster Paris, tech. 250 lb. bbis. | 3.30 |
| 25-50 lb. kegs. | .18 : .22 | Cream White, USP 300 lb. bbis. | .07 : .07 1/4 | True Dental, 300 lb. bbis. | 4.50 |
| Paraldehyde, 100 gal. drs. | .35 | Lily White, USP, 300 lb. bbis. | .09 : .09 1/4 | Platinum, metal soft 10 oz. lots—oz. Podophyllin, 5 lb. bot. | 116.00 |
| Paraformaldehyde, USP 100 lb. cs. | .52 1/2 : .55 | Snow White, USP, 300 lb. bbis. | .13 : .13 1/4 | Second Hands | 5.75 |
| Para-Nitroacetanilid, 300 lb. bbis. | .55 : .60 | PHENOL, see also acid carbolic Open market, 950 lb. drs. | .50 : .55 | POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks. | .09 : .09 1/4 |
| PARA-NITROANILINE, 300 lb. bbis. wks. | .74 : .75 | 240 lb. des. drs. | .50 : .55 | Imp., 88-92% 700 lb. drs. NY. | .07 1/4 : .07 1/4 |
| Para-Nitrochlorobenzene, 1200 lb. drs. wks. | .21 : .30 | Natural 240 lb. des. drs. wks. | ... | USP, by alcohol 5 lb. cans. | .46 : .48 |
| Para-Nitro-ortho-Tolidine, 300 lb. bbis. | 2.75 : 2.85 | Imported, 336 lb. des. drs. | ... | cases | .30 : .35 |
| Para-Nitrophenol, 185 lb. bbis. | .75 : .80 | Phenolphthalein, USP 100 lb. drs. | 1.50 : 1.60 | POTASSIUM Acetate, USP, 100 lb. kegs. | .28 : .29 |
| Para-Nitrodimethylaniline, 120 lb. bbis. | 1.25 : 1.30 | 5 lb. cans, 100 lb. lots. | 9.00 : 11.00 | Bicarbonate, crys. 220 lb. bbis. | .08 : .09 |
| Para-Nitrotoluene, 350 lb. bbis. | .50 : .60 | Phenylacetalddehyde, dom. 1 lb. bot. | 12.00 : 14.00 | Bichromate, crys. 900 lb. cases wks. | .11 1/4 : .11 1/4 |
| Para-oxy-Benzaldehyde, 100 lb. kegs. | 1.50 : 1.60 | Imported | ... | Powd., 900 lb. cases wks. | .13 1/2 |
| Para-Phenetidin, 500 lb. drs. | 1.55 : 1.80 | Phenyl-Alpha-Naphthylamine 100 lb. kegs. | 8.00 : 9.00 | Binoxalate, 300 lb. bbis. | .33 : .34 |
| | | Phenylethylalcohol, 1 lb. bot. | 8.50 : 10.00 | Bisulfate, C.P. 5 lb. cans. | .30 |
| | | Imported | ... | 100 lb. kegs. | .22 |
| | | Phosgene, cylinders | .35 : .40 | Bromate, 100 lb. cs. | .45 |
| | | Phosphorus Oxichloride, 175 lb. cyl. | ... | BROMIDE, USP cryst. 450 lb. bbis. | .26 |
| | | | | Granular, 300 lb. bbis. | .26 |
| | | | | Cases 100 lb. | .27 |
| | | | | Imported, USP, 220 lb. cs. | .18 : .19 |

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Specifications on Request

Chemicals

POTASSIUM—(Continued)

| | | |
|----------------------------------------------------------|------|------|
| CARBONATE, 80-85% cas. | | |
| 800 lb cks. lb | .06½ | .06½ |
| 80-85%, hydrated, 800 lb cks. lb | .07½ | .07½ |
| 90-95% casks lb | .07 | .07½ |
| 96-98% casks lb | .07½ | .07½ |
| 99% casks lb | .09½ | .10 |
| USP, 100 lb kegs lb | .10 | .11 |
| Chlorate, crys. 112 lb kgs. e/l wks. lb | .08½ | .08½ |
| Imp. 112 lb kegs NY lb | .07½ | .08 |
| Powd., 112 lb kegs wks lb | .08½ | .08½ |
| Imp. kegs NY lb | .07½ | .08 |
| Pyrotechnic, fine powd. NY lb | .08 | .09 |
| USP, fine crys. 110 lb kegs NY lb | .08 | .09 |
| Citrate, USP 10 lb cans lb | .63 | .66 |
| Cyanide, 110 lb cases lb | .45 | .50 |
| Glycerophosphate, 75% soln. 25 lb tins lb | 1.65 | 1.70 |
| Guaiacol Sulfonate, 5 lb cans, 10 lb lb | 1.50 | 1.75 |
| Hypophosphite, 10 lb cans lb | ... | .85 |
| Iodide, USP, 100 lb cases lb | 3.75 | 3.85 |
| Second Hands, cases lb | ... | 3.65 |
| Lactophosphate, 4 oz bot. oz | ... | .90 |
| Metabisulfite, 300 lb bbls lb | ... | .23 |
| Imp., 300 lb bbls lb | .14 | .16 |
| Muriate, 80%, 200 lb bags, NY K ₂ O unit | ... | .68 |
| Nitrate, see Saltpetre | | |
| Oxalate, neutral, 100 lb kegs lb | .40 | .45 |
| Perchlorate, 112 lb kegs lb | .09 | .10 |
| Pernangan, USP, crys. 112 lb drs. lb | .18 | .19 |
| Prussiate, red, 100 lb bbls lb | ... | .74 |
| 500 lb casks lb | ... | .70 |
| Prussiate, yellow, 500 lb casks. lb | .36 | .36½ |
| Salicylate, 25 lb cans lb | .70 | .73 |

POTASSIUM—(Continued)

| | | |
|--------------------------------------------------------|------|------|
| Sulfate, 200 lb bags, NY K ₂ O unit | ... | .93 |
| USP, VIII, 100 lb kegs lb | .18 | .20 |
| Sulfocyanide, CP 25 lb jars lb | ... | .70 |
| Tartrate, neutral, 100 lb kegs. lb | ... | .53 |
| Titanium Oxalate, 200 lb bbls. freight allowed lb | ... | .35 |
| Pumice Stone, lump, 250 lb bbls. lb | .04½ | .06 |
| Lump, bags lb | .03½ | .05 |
| Powdered, 350 lb bbls lb | .02½ | .03 |
| Pyridine, 50 gal. drums gal | 3.25 | 3.50 |
| QUICKSILVER, see Mercury | | |
| Quinidine Alk., 100 oz tins oz | .70 | .75 |
| Sulfate, 100 oz tins oz | ... | .50 |
| QUININE SULFATE, USP, | | |
| American, 100 oz tins oz | ... | .50 |
| 1 oz tins, 100 oz lots oz | ... | .57 |
| Dutch, 100 oz tins oz | ... | .50 |
| Java, 100 oz tins oz | ... | .50 |
| Japanese, 100 oz tins oz | ... | .50 |
| QUININE ALK., USP, 100 oz tins. oz | | |
| Acetate oz | ... | .88 |
| Arsenate oz | ... | .88 |
| Benzoate oz | ... | .88 |
| Bisulfate, USP oz | ... | .50 |
| Citrate oz | ... | .63 |
| Dihydride, USP oz | ... | .66 |
| Dihydride oz | ... | .66 |
| Dicarbonate, 10 oz tins oz | 2.50 | |
| Ethyl Carbonate, 16 oz tins. oz | ... | .95 |
| Ferrocyanide oz | ... | .88 |
| Formate oz | ... | .85 |
| Glycerophosphate oz | ... | .88 |
| Hydride oz | ... | .88 |
| Hydrobromide, USP oz | ... | .62 |
| Hydrochloride, USP oz | ... | .62 |
| Hydrochlorosulfate oz | ... | .66 |

QUININE—(continued)

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| Hydride & Urea, USP oz | ... | .88 |
| Hypophosphite oz | ... | .83 |
| Lactate oz | ... | .78 |
| Phenolsulfonate oz | ... | .88 |
| Phosphate oz | ... | .74 |
| Salicylate, USP oz | ... | .63 |
| Tannate, USP oz | ... | .45 |
| Tartrate oz | ... | .88 |
| Valerate oz | ... | .89 |
| Small Sizes: 1 oz vials or cans, 50 oz lots, 5c on extra; 5 oz cans, 50 oz lots 3c on extra; 25 oz cans, 50 oz lots, 2c on extra; single 1 oz vials or cans, 5c extra. All minor quinine salts sold and quoted basis 100 oz lots in 100 oz cans. Sulfate and bisulfate sold basis 100 oz lots in 100 oz cans. Smaller orders or containers extra as above schedule. | | |
| R SALT, 250 lb bbls. wks lb | .55 | .70 |
| Red Lead, see lead oxide | | |
| Red Precipitate, see mercury. | | |
| Resorcin, see resorcinol. | | |
| Resorcinol tech. 100 lb kegs lb | 1.56 | 1.55 |
| USP, 25 lb cans lb | 2.35 | 2.35 |
| Rochelle Salt, USP, 225 lb bbls. lb | ... | .21 |
| Imp. USP, 300 lb bbls lb | .19½ | .20 |
| Rosewater, triple, 5 gal. demis. gal | .90 | 1.10 |
| Rotten Stone, lump imp., bbls. lb | .07 | .08 |
| Lump selected, bbls lb | .09 | .12 |
| Powdered, bbls lb | .02 | .05 |
| Domestic, bags, mines ton | 24.00 | 30.00 |



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Chemicals

| | | | | | | | | |
|-----------------------------------------|--------|----------|----------------------------------------------------------------------------------|-------|--------|-----------------------------------------|-------|---------|
| SACCHARIN, USP, 1 lb cans, 25 lb | | | Soap, Castile, 40 lb bxs.....D | | | SODIUM ACETATE, crys 450 lb bbls | | |
| D | 1.90 | : 2.00 | Powd. USP, 250 lb bbls.....D | .28 | : .29 | wks.D | .05½ | : .05½ |
| Soluble, USP, 1 lb cans, 25 lb D | 1.90 | : 2.00 | Green, USP, 150 lb kegs.....D | .07 | : .07½ | Ton lots, bbls. wks.....D | ... | : .05½ |
| Safrol, 60 lb cansD | .55 | : .60 | Soapstone, see Talc, crude | | | Imp. 500 lb casks.....D | ... | : .05 |
| Sal Ammoniac, see Ammon. Chloride | | | Prices on soda alkalies are based on actual percentages and not N. Y. & L. test. | | | Aluminum Sulfate, see alum soda. | | |
| Salicin, USP, 1 lb cartons, 25 lb D | 5.00 | : 5.25 | SODA ASH, 58% light bags NY | | | Benzonate, USP, 250 lb bbls...D | .65 | : .71 |
| Salol, USP, 100 lb drums.....D | .85 | : .90 | flat, ex-warehouse100 lb | ... | : 2.00 | Bicarbonate, 400 lb bbls NY100 lb | ... | : 2.25 |
| Salt, Common, see sodium chloride. | | | Bbls., ex-warehouse.100 lb | ... | : 2.25 | Bbls. c/l wks.....100 lb | ... | : 2.00 |
| Salt Cake, c/l f.o.b. wks.....ton | 28.00 | : 30.00 | Contract, Basis 48% bags c/l | | | 112 lb kegs wks.....100 lb | ... | : 2.25 |
| SALTPETRE, Double Refined | | | wks100 lb | ... | : 1.20 | 112 lb kegs, NY.....100 lb | ... | : 2.50 |
| Granular, 400-500 lb bbls, | | | Prompt and spot, Basis 48% bags | | | Bichromate, 600 lb casks wks..D | .08½ | : .08½ |
| c/l wks.D | ... | : .06½ | c/l wks100 lb | 1.25 | : 1.30 | Casks, c/l wks.....D | ... | : .08½ |
| Less c/l works, bbls.....D | ... | : .08½ | Soda Ash, 58% dense, bags ex- | | | Casks, NYD | ... | : .08½ |
| Large Crystals, 350-400 lb bbls, | | | warehouse, NY100 lb | ... | : 2.07 | Bisulfite, dry powder, 500 lb | | |
| c/l wks.D | ... | : .08 | Bbls., ex-warehouse.100 lb | ... | : 2.30 | bbls., wks.D | ... | : .04½ |
| Small Crystals, 350-400 lb bbls, | | | Contract, Basis 48% bags c/l | | | Solution, 32-40°, 500 lb bbls | 1.25 | : 1.75 |
| c/l wks.D | ... | : .07½ | wks100 lb | ... | : 1.25 | wks.100 lb | ... | : 1.05 |
| Powdered, bbls. c/l wks.....D | ... | : .07½ | Prompt and spot, Basis 48% bags | | | Bromate, 100 lb cs.....D | ... | : .25 |
| Imported, 500 lb bbls, NY...D | ... | : .07 | c/l wks100 lb | 1.30 | : 1.35 | Cases, 100 lbD | ... | : .26 |
| Santonin USP, 1 lb bot.....D | 175.00 | : 177.00 | SODA, CAUSTIC, 76% solid, reals, | | | Imp. USP, 112 lb cs.....D | .21 | : .23 |
| Powd, 1 lb bot.....D | 176.50 | : 178.50 | NY flat100 lb | 3.50 | : 3.60 | Cacodylate, USP, 5 lb bot, | | |
| Saponin, ex Quillaia, 5 lb tins...D | 1.25 | : 1.56 | 76% solid dra. ex-warehouse | | | 25 lbD | 6.00 | : 6.25 |
| Schaeffer's Salt, 250 lb bbls.wks..D | .60 | : .65 | NY100 lb | ... | : 3.70 | Carbonate, sal soda, 350 lb bbls | | |
| Scopolamine, see hyoscine. | | | Contract basis 60% c/l wks | | | lc/l NY100 lb | 1.30 | : 1.35 |
| Seidlitz Mixture, 225 lb bbls....D | .17 | : .18 | 100 lb | ... | : 2.50 | Works c/l100 lb | 1.10 | : 1.30 |
| SILICA | | | Prompt and spot, Basis 60% | | | Monohydrate, 400 lb bbl, | | |
| Crude, bulk, mines.....ton | 10.00 | : 12.00 | c/l wks100 lb | 2.57½ | : 2.60 | lc/l100 lb | ... | : 2.45 |
| Refined, floated, bagston | 18.00 | : 30.00 | Contract 60% low grade c/l | | | Pure photographic, 100 lb | | |
| Air floated, bagston | 32.00 | : 50.00 | wks flat100 lb | ... | : 2.65 | kegD | .08 | : .09 |
| Extra, floated, bagston | 55.00 | : 65.00 | Ground & flake, 76% prompt and | | | Chlorate, 112 lb kegs, wks...D | .06½ | : .07 |
| SILVER, metal, American.....cs | ... | : .99½ | spot, wks c/l dra.....100 lb | ... | : 3.65 | Imported, 112 lb kegs.....D | ... | : .06½ |
| Foreigncs | ... | : .87 | Contract, 76% drums, c/l wks | | | Chloride, tech 200 lb bags,ton | 12.00 | : 15.00 |
| Colloidal, 16oz bot.....cs | ... | : 2.80 | flat100 lb | ... | : 3.60 | C. P. 300 lb bbls.....D | .05 | : .06 |
| Silver Iodide, 16oz bot.....cs | ... | : .68 | 76% dra. ex-warehouse NY100 lb | ... | : 4.15 | Citrate, USP, IX, 100 lb kegs.D | ... | : .62 |
| Nitrate, USP, 200oz bot.....oz | .44½ | : .45½ | USP, stick, 10 lb cans.....D | .19 | : .21 | USP, VIII, 100 lb kegs...D | ... | : .55 |
| Nucleinate, 16oz bot.....cs | .32 | : .37 | Pure, stick, by alcohol.....D | .25 | : .27 | Cyanide, 96-98%, 100 lb cases | | |
| Proteininate, 16oz bot.....cs | .34 | : .39 | | | | wks.D | ... | : .23 |
| | | | | | | Ton lots, wks.....D | ... | : .23 |
| | | | | | | 73-76%, 100 lb cases, wks..D | ... | : .20½ |
| | | | | | | Imp. 128%, 200 lb cases..D | .21½ | : .22 |
| | | | | | | 120%, casesD | .20 | : .20½ |
| | | | | | | Fluoride, 350 lb bbls, NY imp.D | ... | : .09½ |



Soda Ash

Modified Soda Bicarbonate of Soda

Caustic Soda Special Alkali

Textile Soda

Manufactured and Sold by

DIAMOND ALKALI COMPANY

GENERAL OFFICES - PITTSBURGH, PA.

Chemicals

SODIUM—(Continued)


| | | |
|------------------------------------------------------------|---------|-----------|
| Glycerophos, USP, crys 25 lb cans | 1.70 | : 1.75 |
| Powder, 25 lb tins..... | 1.75 | : 1.80 |
| Solution, USP 25 lb tins..... | 1.00 | : 1.05 |
| Hydroxide, see Soda Caustic | | |
| Hypochlorite, Soln, 100 lb cys. lb | ... | : .05 |
| 14 1/2% soln., 50 lb cys..... | ... | : .04 |
| Hydroxide, 200 lb bbls, fob, wks. lb | .19 | : .22 |
| Hypophosphite, USP, 25 lb cans | ... | : .75 |
| HYPOSULFITE, tech. pea crys., | | |
| 375 lb bbls. wks. 100 lb | 2.90 | : 3.30 |
| Bbls. c/l wks. | ... | : 2.75 |
| 100 lb kegs wks. | 3.00 | : 3.60 |
| Granulated, bbls. wks. | 3.15 | : 3.55 |
| Bbls. c/l wks. | ... | : 3.00 |
| Kegs wks. | 3.25 | : 3.55 |
| Regular crystals | 2.65 | : 2.90 |
| Iodide, USP, 25 lb jars..... | ... | : 4.25 |
| Metanilate, 150 lb bbls..... | .55 | : .60 |
| Naphthionate, 300 lb bbls..... | .60 | : .62 |
| Nitrate, crude, 95%, 200 lb bgs c/l NY | ... | : 2.58 |
| Futures, NY | ... | : 2.50 |
| Double Refined, 400 lb bbls gran. c/l wks. | ... | : .04 1/2 |
| Nitrite, 500 lb bbls wks..... | .09 | : .09 1/2 |
| Bbls. spot, makers..... | ... | : .09 1/2 |
| Imp. 650 lb casks..... | ... | : .08 |
| Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls. wks..... | .25 | : .27 |
| Oxalate, neutral, 100 lb kegs. lb | ... | : .47 |
| Perborate, 275 lb bbls..... | ... | : .24 |
| Imp., 225 lb drs..... | .18 | : .19 |
| Peroxide, 200 lb cases..... | .25 | : .27 |
| Phosphate, di-sodium, tech 550 lb bbls. | | |
| USP, gran. 275 bbls..... | .03 1/2 | : .03 1/2 |
| Imp. gran. | .07 | : .07 1/2 |
| USP, recryst 275 bbls..... | .05 1/2 | : .06 |
| Mono-sodium 100 lb kegs..... | .10 | : .11 |
| Tri-sodium tech. c/l, bbls..... | .24 | : .26 |
| Picramate, 100 lb kegs..... | .04 1/2 | : .05 |
| ... | ... | : .60 |

SODIUM—(Continued)

| | | |
|-----------------------------------------------|---------|-----------|
| Para-Toluene Sulfonate, 175 lb bbls | .08 | : .09 |
| PRUSSIAN, yellow, 450 lb cks. lb | .16 1/2 | : .17 1/2 |
| 250 lb bbls. | ... | : .17 1/2 |
| Pyrophosphate, 100 lb kegs..... | .18 | : .22 |
| Salicylate, 100 lb kegs..... | .47 | : .57 |
| Second Hands, USP, kegs..... | .48 | : .50 |
| Silicate, 60° 700 lb bbls. f.a.s. NY | ... | : 2.00 |
| Works, 1000 lb drums..... | ... | : 1.90 |
| Works, tanks | ... | : 1.75 |
| 40° domestic, 700 lb c/l f.o.b. wks. | ... | : .80 |
| Works, 1000 lb drums..... | ... | : .82 1/2 |
| Works, tanks | ... | : .75 |
| Spot, drums, bbls..... | 1.25 | : 1.50 |
| Silicofluoride, 450 lb bbls, NY. lb | .07 1/2 | : .07 1/2 |
| Sulphate, see Glauber's Salt. | | |
| Sulfide, 60% solid, 650 lb drs lb/1 wks. | .05 | : .05 1/2 |
| Drs. c/l wks. | ... | : .04 1/2 |
| Imp. 700 lb drs. NY..... | .03 1/2 | : .04 |
| 60% broken, 650 lb drs wks. lb | .05 | : .05 1/2 |
| Imp. 500 lb drs NY..... | .04 1/2 | : .04 1/2 |
| 30% crys. 400 lb bbls. wks. lb | .02 1/2 | : .02 1/2 |
| Imp., 400 lb bbls..... | .02 1/2 | : .02 1/2 |
| Sulfite, crys, 400 lb bbls wks. lb | .03 1/2 | : .03 1/2 |
| Dessicated, 400 lb bbls..... | .09 1/2 | : .10 |
| Sulfocarbonate, USP, 100 lb kegs | .36 | : .38 |
| Sulfocyanide, 400 lb bbls..... | .45 | : .47 |
| Tungstate, crys 100 lb kegs..... | ... | : .55 |
| Dessicated, kegs | ... | : .65 |
| olvent Naptha, see Naptha. | | |
| Spartein Sulfate, USP, 250 lb bulk. oz | .60 | : .70 |
| Single oz. vial..... | ... | : .60 |
| Starch, rice, 140 lb bags..... | .09 | : .10 |

STRONTIUM Bromide, USP, 100 lb

| | | |
|-------------------------------------------|-------|-----------|
| Carb. 600 lb bbls. wks..... | ... | : .33 |
| 100 lb kegs wks..... | ... | : .07 |
| Iodide, USP, 25 lb jars..... | ... | : .08 |
| Nitrate, 600 lb bbls, wks..... | ... | : 4.00 |
| Imp., bbls, NY..... | ... | : .11 1/2 |
| Salicylate, USP, 100 lb kegs..... | ... | : .12 1/2 |
| ... | ... | : .85 |
| STRYCHNINE Alkaloid, USP, crys | | |
| 1000w tins | ... | : 1.15 |
| Alk. powd, USP..... | ... | : 1.65 |
| Acetate | ... | : 1.05 |
| Glycerophosphate, USP | ... | : 1.05 |
| Hydrobromide | ... | : 1.05 |
| Hydrochloride | ... | : 1.05 |
| Hypophosphite | ... | : 1.15 |
| Nitrate, USP | ... | : 1.05 |
| Phosphate | ... | : 1.05 |
| Sulfate, USP, crys powd..... | ... | : .84 |
| Saccharinate | ... | : 2.15 |
| Strychnine preparations quoted bases | | |
| 1000w lots in 1000w tins. Small Sizes: | | |
| 1/4oz vials, 50c extra; 1/2oz vials, 25c | | |
| extra; single ounce vials, 7c extra. Lots | | |
| of 25 oz. 5c higher than above | | |
| schedule. Lots of less than 25 oz. | | |
| 10c higher per oz. | | |
| Sugar Milk, USP, 200 lb bbls..... | .21 | : .22 |
| Second Hands, USP, bbls..... | .23 | : .24 |
| Sulfonal, see Sulfonmethane. | | |
| Sulfonmethane, USP, 5 lb bbs..... | ... | : 3.50 |
| Sulfonethyrimethane, USP, bbs..... | ... | : 4.50 |
| SULFUR, crude, bulk, c/l NY..... | | |
| Crude, f.o.b. mines..... | 14.00 | : 15.00 |
| Brimstone, 250 lb bgs, c/l 100 lb | 1.75 | : 1.95 |
| Less c/l bags NY | 1.85 | : 2.10 |
| Soll, 500 lb bbls c/l NY..... | ... | : 2.15 |
| Less c/l bags NY..... | 2.20 | : 2.45 |
| Flour, Heavy, 290 lb bbls, 100 lb | 2.50 | : 3.05 |
| Light, 100%, 260 lb bbls, 100 lb | 2.60 | : 3.15 |
| Rubbermakers 100%, 240 lb bbls, NY | 2.60 | : 3.15 |



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SODA ASH CAUSTIC SODA MODIFIED SODA
CAUSTICIZED ASH

Chemicals

SULFUR—(continued)

| | | |
|-----------------------------------|---------|-----------|
| Commercial, 99%, 150 lb. bgs | | |
| NY | 1.35 | : 1.85 |
| For Durling, 99%, 100 lb | | |
| bgs NY | 2.00 | : 2.50 |
| Flowers, 100%, 240 lb bbls | | |
| NY | 3.00 | : 3.55 |
| Precipitated, 125 lb bbls NY.. | .14 | : .16 |
| Lac, 125 lb bbls NY..... | .07 | : .10 |
| Sulfur Chloride, red, 700 lb drs | | |
| wks | .05 | : .06 |
| 150 lb chys wks..... | | .06 |
| Yellow, 700 lb drs, wks..... | .05 | : .06 |
| 150 lb chys. wks..... | | .06 |
| Sulfur Dioxide, 100 lb cyl..... | .08 | : .08 1/2 |
| Iodide, USP, VIII, 5 lb bot.. | | 4.55 |
| Sulfuric Ether, see Ether..... | | |
| Sulfuryl Chloride, 600 lb drs | | .70 |
| TAIC, Italian, 220 lb bags NY.. | 35.00 | : 40.00 |
| Refined, white, bags..... | 42.00 | : 55.00 |
| French, 220 lb bgs. NY..... | 25.00 | : 30.00 |
| Refined, white, bags..... | 32.00 | : 45.00 |
| Dom, crude, 100 lb bags NY ton | 15.00 | : 18.00 |
| Refined, 100 lb bags NY..... | 20.00 | : 30.00 |
| Tartar Emetic, tech. 700 lb bbls. | .27 | : .27 1/2 |
| USP, 300 lb bbls..... | .34 1/2 | : .35 1/2 |
| Terpin Hydrate, USP, 100 lb kegs | .70 | : .72 |
| Terpineol, CP 1000 lb drums... | .50 | : .55 |
| Cans, 50 lb | .55 | : .57 |
| Imported, cans, 25 lb | 1.00 | : 1.25 |
| Terpenyl Acetate, 25 lb cans.... | 1.65 | : 1.85 |
| Terra Alba, No. 1, 300 lb bbls | 1.85 | : 1.90 |
| No. 2, bbls..... | 1.25 | : 1.35 |
| Theobromine Alk., 5 lb cans..... | | 6.00 |
| and Sod. Salicylate, 1 lb bot.. | | 4.00 |
| Thiocarbamid, 170 lb bbls..... | .23 | : .30 |
| Thymol, USP, 10 lb cans..... | 3.25 | : 3.50 |
| Iodide, 5 lb boxes..... | | 6.75 |
| TIN, Metal Straths, NY..... | 42.00 | : 42.25 |
| American standard, NY..... | 41.75 | : 42.00 |
| 99% American, NY..... | 41.62 | : 42.75 |
| C.P. money, 25 lb bgs NY.D | | |

Tin—(continued)

| | | |
|---------------------------------------|---------|-----------|
| Bichloride, 50% soln 100 lb | | |
| bbls. wks..... | .13 | |
| Crystals, 500 lb bbls. wks..... | .35 1/2 | |
| 100 lb kegs, wks..... | .36 | |
| Oxide, 400 lb bbls. wks..... | .48 | |
| 100 lb kegs wks..... | .50 | |
| Tetrachloride, 1000 lb drs. wks. | .26 1/2 | |
| Tellurine, 350 lb bbls..... | .95 | : 1.00 |
| Sulfate, 350 lb bbls..... | | 1.00 |
| Toluene, 8000 gal tank cars, wks. | .30 | |
| 110 gal drs wks | .35 | |
| Toluidine, Mixed, 900 lb drs. wks. | .31 | : .32 |
| Tribromophenol, 100 lb cans.... | | 1.00 |
| Trional, see Sulfonethymethane. | | |
| Triphenyl Phosphate, 450 lb bbls. | .45 | |
| Tripoli, 500 lb bbls..... | 2.50 | : 3.00 |
| Tungsten NY | 8.25 | : 8.50 |
| UREA, pharm 112 lb cans..... | .40 | |
| VANILLIN, USP, 400 oz cans.... | .41 | : .41 1/2 |
| Cans, 80 ozs..... | .41 1/2 | |
| Cans, 16 ozs..... | .42 1/2 | |
| Vermilion, Amer. 100 lb kegs.... | .35 | |
| English, kegs | | 1.30 |
| Veratrine Sulfate, 1 oz vial..... | 2.50 | |
| Hydrochloride, 1 oz vial..... | | 2.50 |
| Veronal, see Acid Diethylbarbituric | | |
| WHITE LEAD, see lead, white. | | |
| White Precipitate, see mercury. | | |
| Whiting, 200 lb bags, c/l wks. ton | 18.00 | |
| Bags, 1/c1 wks..... | 20.00 | |
| Gilders, bags | 13.50 | : 15.00 |
| French, bags, NY..... | 18.00 | |
| English, bags, NY | 23.00 | |
| Witch Hazel Extract, 50 gal bbls. gal | 1.20 | : 1.35 |

XYLENE, 2° dist range, nitration

| | | |
|--------------------------------------|---------|-----------|
| ths. wks..... | | |
| 110 gal. drs. NY..... | | 1.00 |
| 5° dist. range, 8000 gal tanks | | |
| wks..... | | |
| 110 gal. drs. wks..... | | |
| Commercial, 110 gal drs., wks. gal | | |
| Tanks, wks..... | | |
| Xylidine, 900 lb drs..... | | .47 |
| YARA YARA, 1 lb tins..... | 2.00 | : 2.50 |
| Yohimbin Hydchloride, 1 oz. vial. oz | 5.00 | : 5.50 |
| ZINC, METAL, high grade, slabs | | |
| c/l NY | | 9.00 |
| Common Slabs, c/l NY..... | 7.05 | : 7.10 |
| Mossy, 25 lb bxs NY..... | | .18 |
| Ammonium Chloride, powd., 400 lb | | |
| bbls..... | .07 1/2 | : .08 |
| Carb. tech, 150 lb kegs NY.. | | .18 |
| USP, 100 lb kegs..... | | .30 |
| Chloride, fused, 600 lb drs wks. lb | | .06 |
| Drs. c/l wks..... | | .05 1/2 |
| Imp. drs NY..... | .06 | : .06 1/2 |
| Granulated, 500 lb bbls. wks. | .08 | : .09 |
| Imported, drs. NY..... | .06 1/2 | : .07 |
| USP, 25 lb jars..... | | .25 |
| Cyanide, 100 lb drs..... | .42 | : .43 |
| Dust, 100 lb tins wks..... | .10 1/2 | : .11 |
| 500 lb bbls, kegs, c/l wks. lb | | .10 |
| 500 lb bbls, kegs, c/l wks. lb | | .09 1/2 |
| Iodide, 5 lb bottles..... | | 5.20 |
| Nitrate, 25 lb jars..... | | .35 |
| Oxide, Amer. 300 lb bbls, wks.... | .08 1/2 | : .09 |
| Bbls c/l wks..... | .08 1/2 | : .08 3/4 |
| French, 300 lb bbls wks..... | .10 1/2 | : .12 1/2 |
| Bbl c/l wks..... | .10 | : .12 |
| Bags, c/l wks..... | .09 1/2 | : .10 1/2 |
| USP, 100 lb bbls. c/l..... | | .16 |
| Ton lots, wks..... | | .17 |
| Imported, white seal, bbls..... | | .12 1/2 |
| Green seal, bbls..... | | .10 |
| USP, 100 lb bbls..... | .15 | : .17 |
| Stearate, USP, 60 lb bbls..... | | .23 |
| Sulfate, 400 lb bbls, wks..... | .03 1/2 | : .03 3/4 |
| Bbls c/l wks..... | | .02 1/2 |
| USP, 100 lb kegs..... | .08 | : .09 |
| Sulfocarbonate, 100 lb kegs. lb | .35 | : .37 |

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Oils and Fertilizers

Oils

| | | |
|-------------------------------------|------|------|
| Castor, No. 1, 400 lb bbls. | .14½ | .15 |
| 80 lb cases | .15½ | .16 |
| No. 3, bbls. | .14 | .14½ |
| Blown, 400 lb bbls. | .15 | .15½ |
| China Wood, bbls. spot NY | .28 | |
| 8000 gal. tks. NY | .27 | |
| June-July, forward, China | .21 | |
| Coast, tanks, July forward | .21 | |
| Coconut Ceylon, 375 lb bbls. NY | .10 | .10½ |
| 8000 gal. tanks, NY | .08½ | .08¾ |
| Cochin, 375 lb bbls. NY | .11 | .11½ |
| Tanks, NY | .09½ | .09¾ |
| Manila, tanks, P. Coast | .08½ | .08¾ |
| Edible, bbls. NY | .11 | .11½ |
| Cod Newfoundland, 50 gal. bbls. gal | .70 | .74 |
| Tanks, NY | .68 | .70 |
| Copra, bags | .05½ | .05¾ |
| Corn, ref. 375 lb bbls. NY | .13½ | .13¾ |
| Crude, tanks mills | .09½ | .09¾ |
| Bbls. NY | .13 | |
| COTTONSEED, crude tks. mills | .09 | .09½ |
| P. S. Y. 100 bbl. lots NY | .13½ | .13¾ |
| White, 100 bbl. lots NY | .12 | .12½ |
| Winter yellow, 100 bbls. NY | .12½ | .12¾ |
| Degras, Amer. 50 gal. bbls. NY | .04½ | .04¾ |
| English, bbls. NY | .04½ | .04¾ |
| Neutral, bbls. NY | .09 | .14 |
| Greases, choice white, bbls. NY | .08 | |
| Yellow | .07 | |
| Brown | .06½ | |
| House | .07 | |
| Bone naphtha | .06½ | |
| Heating, Tanks, Coast | .12 | |
| Horse, 375 lb bbls. NY | .12½ | |
| Lard, prime steam bbls. | .13½ | |
| Compound, bbls. | .13½ | |
| LARD OIL, Edible prime, bbls. | .14 | |
| Off prime, bbls. | .12½ | |
| Extra bbls. | .12½ | |
| Extra No 1, bbls. | .12 | |
| No. 1 bbls. | .11½ | |
| No. 2 bbls. | .11 | |

| | | |
|-------------------------------|-----|------|
| LINSEED, raw c/l bbls. spot | gal | 1.14 |
| Five bbls., raw | gal | 1.17 |
| Bolled, 5 bbl. lots | gal | 1.19 |
| Double bolled 5 bbl. lots | gal | 1.20 |
| Kaw, 1c/l bbls. | gal | 1.17 |
| June, c/l bbls. | gal | 1.16 |
| July, Aug., Sept., c/l bbls. | gal | 1.07 |
| Imported, bbls., NY | gal | 1.07 |
| Menhaden, crude, bbls. wks. | gal | .48 |
| Crude, tanks wks. Balt. | gal | .50 |
| Light strained, tanks | gal | .86 |
| Light strained, bbls. NY | gal | .84 |
| Yellow bleached, bbls. NY | gal | .92 |
| Blown, bbls. NY | gal | .16½ |
| Neatsfoot, 20° c.t. bbls. NY | gal | .15½ |
| 30° cold test, bbls. NY | gal | .14½ |
| Prime, bbls. NY | gal | .13% |
| Oleo Oil, No. 1, bbls. NY | gal | .11½ |
| No. 2, bbls. NY | gal | .10½ |
| No. 3, bbls. NY | gal | 1.17 |
| OLIVE, denatured bbls. NY | gal | 1.80 |
| Edible, bbls. NY | gal | .09 |
| Foots, bbls. NY | gal | .09½ |
| Shipment | gal | .08 |
| Palm Lagos, 150 lb casks | gal | .07½ |
| Niger casks | gal | .07½ |
| Bonny old Calabar, casks | gal | .09½ |
| Palm Kernel, 1500 lb casks NY | gal | .17 |
| Peanut, refined bbls. NY | gal | .12 |
| Crude, mills buyers' tks. | gal | .16½ |
| Crude, bbls. NY | gal | .15½ |
| Perilla, bbls. NY | gal | .20 |
| June, ship, bbls. NY | gal | .84 |
| Poppseed, bbls. NY | gal | 1.05 |
| Rapeseed, refined bbls. NY | gal | .10½ |
| Blown, bbls. NY | gal | .10½ |
| Red Oil, distilled, bbls. | gal | .10½ |
| Saponified, bbls. | gal | .45 |
| Salmon, 8000 gal. tks. Coast | gal | |
| Sesame, domestic edible bbls. | gal | |
| Sod Oil, bbls. NY | gal | |

| | | |
|----------------------------------|-----|------|
| SOYA BEAN, crude tks. Coast | gal | .10½ |
| Crude, Tks. D.P., NY | gal | .11 |
| Crude, bbls. NY | gal | .13 |
| Refined, bbls. NY | gal | .99 |
| Sperm, 38° c. t. blehd. bbls. NY | gal | .94 |
| 45° cold test, blehd. bbls. NY | gal | .13 |
| STEARIC ACID, s. p. 200 lb bags | gal | .14 |
| Double pressed, bags | gal | .14½ |
| Double pressed, bgs, saponified | gal | .14½ |
| Triple pressed, bgs, distilled | gal | .15½ |
| Triple pressed, bgs, saponified | gal | .15½ |
| Stearine, oleo, bbls. | gal | .09½ |
| Lard, bbls. | gal | .10½ |
| Tallow, edible, tins | gal | .07½ |
| City extra, looms | gal | .10½ |
| Tallow Oil, acidless tks. NY | gal | .11½ |
| Bbls., c/l NY | gal | .73 |
| Teaseed, crude bbls. NY | gal | .75 |
| Walnut, crude bbls. NY | gal | .76 |
| Whale, nat. winter bbls. NY | gal | .79 |
| Blehd. winter bbls. NY | gal | .81 |
| Extra Blehd. bbls. NY | gal | |
| Crude, No. 1, tanks Coast | gal | |
| Crude, No. 2, tanks Coast | gal | |
| Crude No. 3, tanks Coast | gal | |

Fertilizer Materials

| | | |
|-------------------------------|--------|-------|
| Ammon. Sulf, bulk wks. | 100 lb | 3.20 |
| Double bgs. f.a.s. NY | 100 lb | 3.65 |
| Blood, dried f.o.b. NY | unit | 3.75 |
| Bone, 3 & 50 ground steamed | ton | 28.00 |
| Raw, Chicago | ton | 30.00 |
| Cyanamide wks. | unit | 2.20 |
| Fish Scrap, dried wks. | unit | 3.80 |
| NITRATE SODA, NY | 100 lb | 2.50 |
| Phosphate Rock, f.o.b. mines | ton | 3.25 |
| Florida pebble, 68-78% | ton | 3.25 |
| Tennessee, 70-75% | ton | 3.40 |
| Phosphate Acid, 16% Bulk wks. | ton | 9.50 |
| Potassium Murate, 80% | unit | .68 |
| Sulfate | unit | .93 |
| Steamed Bone Meal, NY | ton | 35.00 |
| Tankage, ground NY | unit | 3.50 |
| High grade f.o.b. Chicago | unit | 3.00 |



SULPHURIC ACID, C. P.

Spec. Grav. 1.84 9 lbs.

THE STANDARD OF PURITY

| | |
|-------------|------------------------------------|
| Acidity | 95% H ₂ SO ₄ |
| Fe | .00002% |
| HCl | "Nil" |
| As | .0000025% |
| Nitrogen | "Nil" |
| Nonvolatile | .0006% |

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Tannins and Dyestuffs

Naval Stores

| (Caribbean ex-ward N. Y.) | | |
|------------------------------------------------------------------------------------|--------|---------|
| Spirits Turpentine, bbls.....gal | 1.11 | : 1.13 |
| Wood Turpentine, stm. dist'd, bbls.gal | | : 1.02 |
| Destructive distilled, bbls.....gal | | : .75 |
| Fine Oil, stm dist'd, bbls,gal | | : .70 |
| Pitch, prime | bbl | : 6.00 |
| Rosins. (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb) | | |
| B | 280 lb | : 5.85 |
| D | 280 lb | : 5.90 |
| E | 280 lb | : 5.95 |
| F | 280 lb | : 6.00 |
| G | 280 lb | : 6.10 |
| H | 280 lb | : 6.10 |
| I | 280 lb | : 6.00 |
| K | 280 lb | : 6.00 |
| M | 280 lb | : 6.00 |
| N | 280 lb | : 6.30 |
| WG | 280 lb | : 6.75 |
| WW | 280 lb | : 7.75 |
| Rosin Oil, first run, 50 gal. bbls.gal | | : .47 |
| Second run, bbls.....gal | | : .49 |
| Tar, kiln-burnt | bbl | : 13.50 |
| Retort | bbl | : 12.50 |

Woods

| | | |
|-------------------------------------|-----|---------------|
| Barwood, chips | lb | .04½ : .05 |
| Camwood, chips | lb | .09 : .13 |
| Divi Divi, pods 100-200 lb bags.ton | | 38.00 : 40.00 |
| Fustic, sticks | ton | 30.00 : 35.00 |
| Chips | lb | .04 : .06 |
| Hemlock, bark | ton | 16.00 : 18.00 |
| Hyperic, chips | lb | .06½ : .07 |
| LOGWOOD, sticks | ton | 28.00 : 30.00 |
| Chips 150 lb bags | lb | .02½ : .03 |
| Mangrove bark, African.....ton | | 35.00 |
| Bark, South American.....ton | | 25.00 : 30.00 |

| | | |
|------------------------------------|-------|---------|
| Myrobalans, 150 lb bags J1.....ton | | : 35.00 |
| B1 | ton | : 35.00 |
| R2 | ton | : 27.00 |
| Nutmalls, see Crude Drugs. | | |
| Oak bark, whole.....ton | 30.00 | : 23.00 |
| Ground | ton | : 35.00 |
| Quercitron bark, rough.....ton | | : 10.00 |
| Ground | ton | : 20.00 |
| Sumac, Sicily, 160 lb bags.....ton | | : 88.00 |
| Virginia, 150 lb bags.....ton | | : 35.00 |
| Valonia Caps. 28-33% tan.....ton | 34.00 | : 36.00 |
| Beard, 40% tan, 150 lb bps.ton | 56.00 | : 60.00 |
| Wattle bark, 150 lb bags.....ton | 38.00 | : 40.00 |

Extracts

Range of prices includes quality
range for large quantity.

| | | |
|---------------------------------------|------|-----------|
| Annatto, fine | lb | .26 : .39 |
| Archil, double 600 lb bbls.....lb | .16 | : .18 |
| Triple, 600 lb bbls.....lb | .17 | : .19 |
| Conc., 600 lb bbls.....lb | .18 | : .20 |
| Chestnut, clarified, 25% tks. wks.ton | | : 2.25 |
| Bbls., wks. | lb | : 2.75 |
| Powd., 60% 100 lb bbl. wks.....lb | .05½ | : .05½ |
| Decolorized, bbls. wks.....lb | .09 | : .09½ |
| Cudbear, English | lb | .21 : .23 |
| Cutch, Rangoon, 100 lb bales.....lb | .13 | : .16 |
| Borneo, solid, 100 lb bales.....lb | .04½ | : .05½ |
| Liquid, 450 lb bbls.....lb | .10 | : .11 |
| Tablets, 120 lb boxes.....lb | .13 | : .14 |
| Flavine | lb | .90 : .95 |
| Fustic, solid 50 lb boxes.....lb | .14 | : .18 |
| Crystals, 100 lb boxes.....lb | .22 | : .24 |
| Liquid, 51%, 600 lb bbls.....lb | .10 | : .14 |
| Gal extract | lb | .16 : .18 |
| Gambler, 25% liq. 450 lb bbls.....lb | .08½ | : .09½ |
| Common, 200 lb cases.....lb | .10½ | : .11 |
| Singapore cubes, 150 lb bags.....lb | | : .11 |
| HEMATINE, Paste, 500 lb bbls.....lb | .11½ | : .13½ |
| Crystals, 400 lb bbls.....lb | .16 | : .20 |
| Hemlock, 25% 600 lb bbls. wks.....lb | .03½ | : .03½ |
| Hyperic, 51%, 600 lb bbls.....lb | .15 | : .20 |
| Indigo, Madras bbls.....lb | .85 | : .90 |
| Mantla, bbls.....lb | | : 1.30 |

| | | |
|--------------------------------------|------|-----------|
| Larch, 25%, 600 lb bbls., wks.....lb | .03½ | : .03½ |
| Powd. 100 lb bags, wks.....lb | .07½ | : .08 |
| Logwood, 51%, 450 lb bbls.....lb | .07½ | : .12½ |
| Solid, 50 lb boxes.....lb | .16 | : .21 |
| Madder, Dutch | lb | .38 : .50 |
| Mangrove, 55% 400 lb bbls.....lb | .05½ | : .05½ |
| Myrobalans, 25% liquid bbls.....lb | .04 | : .05 |
| 50% solid, 50 lb boxes.....lb | .04½ | : .05 |
| Oak, tanks wks.....lb | .04 | : .04½ |
| 23-25% liq. 600 lb bbls. wks.....lb | .05 | : .05½ |
| Ossage Orange, 50% liquid.....lb | .07 | : .08 |
| Powd. 100 lb bags.....lb | .15 | : .16 |
| Persian Berries | lb | .27 : .30 |
| QUEBRACHO, 35% liquid tks.....lb | .03½ | : .04 |
| 450 lb bbls. | lb | : .04½ |
| 35% bleaching, 450 lb bbls.....lb | .04½ | : .05½ |
| Solid 65% 100 lb bales.....lb | .05 | : .05½ |
| Clarified bales | lb | .06 |
| Quercitron, 51% 450 lb bbls.....lb | .06½ | : .07½ |
| Powdered, 100 lb boxes.....lb | .09 | : .13 |
| Spruce, 25% liquid tanks wks.....lb | .01 | : .01½ |
| Powd. 50% 100 lb bags wks.....lb | .02 | : .02½ |
| Sumac, liquid 450 lb bbls.....lb | .07 | : .09 |

DYERS' SUNDRIES

| | | |
|------------------------------------------|--------|-------------|
| Albumen, technical, egg 200 lb cs.....lb | .90 | : 1.00 |
| Blood, domestic, 100 lb drs.....lb | .45 | : .55 |
| Spray Yolk 150 lb cs.....lb | .35 | : .55 |
| British Gum, 140 lb bags c/l 100 lb | 4.09 | : 4.19 |
| Bags, lc/l | 100 lb | 4.19 : 4.39 |
| Dextrin, corn 140 lb bags c/l 100 lb | | : 3.74 |
| Bags, lc/l | 100 lb | : 3.84 |
| Yellow, bags, c/l.....100 lb | | : 3.79 |
| Potato 140 lb bags c/l.....100 lb | | : .07½ |
| Bags, lc/l | 100 lb | : .08½ |
| Tapioca, 200 lb bags, lc/l.....100 lb | | : .09½ |
| Prussian blue | lb | .60 : .82 |
| Sago Flour, 150 lb bags.....lb | | : .04½ |
| STARCH, powd. 140 lb bps.c/l100 lb | | : 3.07 |
| Bags lc/l | 100 lb | : 3.17 |
| Pearl, 140 lb bags c/l.....100 lb | 2.97 | : 3.07 |
| Potato, domestic, 200 lb bags.....lb | .04½ | : .05 |
| Imported, bags duty paid.....lb | .05½ | : .05½ |
| Tapioca Flour, high grade bags.....lb | | : .07½ |
| Medium grade, bags.....lb | | : .05½ |
| Low grade, bags.....lb | | : .04½ |
| Turkey Red Oil, bbls.....lb | .11 | : .12 |
| Yolk Oil, bbls.....lb | | : .35 |

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|--------------------------------------|------|---------|-------------------------------------|-------|---------|--------------------------------------|------|--------|
| Acetoides Gum, yel., | .18 | : .20 | Copaiba, Para, 80 lb cs. | .23 | : .25 | Cannabis, USP, bales..... | ... | : 2.00 |
| ACONITE Leaves, bales..... | .16 | : .17 | South American, 80 lb cs. | .28 | : .29 | Cantharides, Chinese cases..... | 1.05 | : 1.10 |
| Aconite Root, USP, bags..... | .35 | : .40 | Flr Canada, cans..... | 13.00 | : 14.00 | Powd., boxes..... | 1.25 | : 1.35 |
| Agar Agar, 1, 200 lb bales..... | ... | : 1.50 | Oregon, bbls., cans..... | ... | : ... | Cantharides, Russian, cases..... | 1.75 | : 1.90 |
| No 2, bales..... | ... | : 1.35 | Peru, 120 lb cases..... | 1.75 | : 1.80 | Powdered, boxes..... | 1.90 | : 2.00 |
| No. 3, bales..... | ... | : 1.25 | Tolu, 90 lb cases..... | 1.00 | : 1.10 | Caraway Seed, African bags..... | .26½ | : .27 |
| Agaric, white, cases..... | ... | : ... | Bamboo Brier Root, bags..... | .06 | : .07 | Dutch, 110 lb bags..... | .28 | : 28½ |
| Almonds, bitter bags bxs..... | .32 | : .35 | Barberry Bark, tree bales..... | .22 | : .24 | Cardamom bleached cases..... | 1.40 | : 1.75 |
| Sweet, bags..... | .45 | : .46 | Bayberry Bark, bales..... | .09 | : .10 | Decorated, cases..... | 1.05 | : 1.15 |
| Meal, tins, boxes..... | .28 | : .30 | Wax, bbls..... | .35 | : .40 | Green, grinding, bags..... | .90 | : 1.05 |
| Aletris Root, bags..... | .60 | : .62 | Belladonna Leaves, bales..... | .17 | : 17½ | Carnauba Wax, Flor. bags..... | .45 | : .48 |
| Alkanet Root, bags..... | .08 | : .10 | Root, bags..... | .12 | : .13 | No. 1 N Country bags..... | .40 | : .43 |
| Aloes, Barbadoes, 120 lb bbls..... | .65 | : .70 | Bees Wax, white bbls..... | .58 | : .57 | No. 2 N Country bags..... | .23 | : .25 |
| Cape, 400 lb cases..... | .12 | : .14 | Yellow, refined bbls..... | .23 | : .26 | No. 3 Fatty Gray, bags..... | .20 | : .21 |
| Curacao, 100 lb cases..... | .08 | : .08½ | Crude, bags..... | .30 | : .32 | No. 3 Chalky, bags..... | .16½ | : .17 |
| Socotrine, whole 100 lb cs..... | .30 | : .32 | Benzoin Gum, Siam, boxes..... | 1.15 | : 1.20 | Cascara Amarga, 150 lb bales..... | .30 | : .32 |
| Althea Root, cut cases..... | .20 | : .22 | Sumatra, 80 lb boxes..... | .30 | : .32 | Cascara Sagrada, bales..... | .14 | : .15 |
| Whole bags..... | .09 | : .10 | Berberis Aquifolium Root, bags..... | .18 | : .17 | Cascarilla Bark, quills bales..... | .30 | : .35 |
| Ambergris, black boxes..... | ... | : 8.00 | Beth Root, bags..... | .22 | : .25 | Siftings, bbls..... | .20 | : .25 |
| Grey, boxes..... | ... | : 28.00 | Blackhaw Bark, root, bales..... | .38 | : .40 | Cassia Buds, 66 lb cases..... | .14 | : .15 |
| Ammoniac, tears, bags..... | 1.35 | : 1.40 | Tree, bales..... | .24 | : .25 | China, select, mata cases..... | .07 | : .07½ |
| Angelica Root, dom. bags..... | .14 | : .15 | Blood Root, bags..... | .13 | : .15 | Saigon, assort. bales..... | .24 | : .27 |
| Angostura Bark, bags..... | .08 | : .10 | Blueflag Root, bags..... | .23 | : .25 | Cassia Fistula, baskets..... | ... | : .12 |
| Anise, Levant bags..... | .17 | : 17½ | Boldo Leaves, bales..... | .20 | : .21 | Castor Beans, bags..... | .03 | : .03½ |
| Star, cases..... | .14 | : .15 | Bonest Herb, bales..... | .08 | : .10 | Castoreum, 1 lb bot..... | 4.00 | : 4.50 |
| Spanish, bags..... | .27 | : 27½ | Borage Flowers, bales..... | .25 | : .27 | Catechu Gum, bags..... | .09 | : .10 |
| Anatto Seed, bags..... | .11½ | : .12 | Bryonia Root, bags..... | .10 | : .11 | Catnip Herb, bales..... | .12 | : .15 |
| ARABIC GUM, | | | BUCHU LEAVES, short, 250 lb | | | Celery Seed, 220 lb bags..... | .23 | : .24½ |
| White, No. 1, 200 lb bags..... | .26 | : .28 | bales..... | 1.00 | : 1.06 | Ceresin Wax, white bags..... | .08½ | : .09 |
| Seconds, 250 lb bags..... | .24 | : .26 | Less, bales..... | 1.03 | : 1.05 | Yellow, 200 lb bags..... | .07½ | : .08 |
| Sorts, amber, 200 lb bags, bbls..... | .14½ | : .15 | Long, bales..... | ... | : ... | CHANONILE FLOWERS, Roman | | |
| Powd., USP, 300 lb bbls..... | .22 | : .23 | Buckthorn Bark, bales..... | .07 | : .08 | bales..... | 1.20 | : 1.25 |
| Arca Nuts, 150 lb bags..... | ... | : .09 | Burdock Root, bags..... | .20 | : .22 | Hung. cases bales..... | .15 | : .15½ |
| Powd., 200 lb bbls..... | ... | : .12 | Eurgundy Pitch, dom. 110 lb stands | ... | : .05 | Charcoal Willow, powd. bbls..... | .06 | : .06½ |
| Arnica Flowers, bales..... | .09 | : .10 | Gross for net..... | ... | : .13 | Wood, powd. bbls..... | .04 | : .05 |
| Root, bags..... | .20 | : .22 | Calabar Beans, bags..... | .13 | : .14 | Chestnut Bark, bags..... | .07 | : .08 |
| Arrowroot, Amer. powd. bbls..... | .06½ | : .09½ | Calamus Root, bleached cases..... | .42 | : .47 | Herb, bales..... | .06 | : .06½ |
| St. Vincent, powd. bbls..... | .14 | : .15 | Unbleached, bags..... | .07 | : .08 | Chicle Gum, bags..... | .75 | : 1.00 |
| Asafetida, USP, 250 lb cases..... | .28 | : .31 | Calendula Petals, imp. bales..... | ... | : .30 | Chiretta, bales..... | .10 | : .12 |
| Powd., 50 lb bxs..... | .55 | : .60 | Calisaya Bark, bales..... | .15 | : .16 | Cinchona Bark, red quills bales..... | .55 | : .60 |
| BALM GILEAD BUDS, bags..... | .40 | : .45 | Camphor, see Chemicals | ... | : ... | Broken, bales..... | .19 | : .20 |
| Balmory Herb, bales..... | ... | : .14 | Canary Seed, Morocco bags..... | .06 | : .06½ | Cinnamon, Ceylon, bales, bond..... | .20 | : .22 |
| | | | South American, bags..... | .05½ | : .05¾ | Civet, Abyssin horns..... | 2.75 | : 3.75 |
| | | | Candella Wax, bags..... | .27 | : .30 | Clover Tops, bags..... | .14 | : .15 |
| | | | Canella Alba Bark, bales..... | .51 | : .53 | Cloves, Zanzibar, 135 lb bales..... | .26 | : .27 |
| | | | Cannabis, true imp. bags..... | ... | : 5.75 | Amboyas, bales..... | ... | : ... |
| | | | American (no assay) bales..... | .90 | : 1.00 | Penang, bales..... | ... | : ... |

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| | | | | | | | | |
|---------------------------------------|---------|---------|--------------------------------------|---------|---------|-------------------------------------|---------|---------|
| Cochineal, USP boxes..... | .40 | .45 | Dogwood Bark, Jamaica bags..... | .11 | .13 | Grindelia Robusta Herb, bales..... | .09 | .10 |
| Coca Leaves, Huancabo bags..... | .. | .. | Flowers, bales..... | .. | .15 | Guaiac Gum, 80 lb cases..... | .35 | .37 |
| Truxillo, bags..... | .40 | .45 | Doggrass Root, USP, cut bags..... | .12 | .15 | Guarana, tins, cases..... | .60 | .75 |
| Cohosh Root, Black bags..... | .09 | .09 1/2 | Dragons Blood, mass cases..... | .55 | .60 | GUM, see Arabic Gum, etc. | | |
| Blue, bags..... | .16 | .17 | Needs, boxes..... | 1.40 | 1.45 | HELLEBORE ROOT, | | |
| Colchicum Root, bags..... | .08 | .09 | ECHINACEA ROOT, bags..... | .33 | .34 | Black, pwd, bbls..... | .08 | .10 |
| Seed, bags..... | .10 | .11 | Elecampane Root, bags..... | .08 1/2 | .09 | White, bags..... | .14 | .15 |
| Colombo Root, whole bags..... | .02 | .04 | Elder Flowers, bales..... | .19 | .20 | Powdered, 250 lb bbls..... | .16 | .17 |
| Colocyth, apples, cases, bales..... | .17 | .22 | Elemi Gum, 89 lb cases..... | .10 | .11 | Helonias Root, (unicorn false) | | |
| Pulp, USP, bales..... | .55 | .57 | Elm, select, 5 lb bundles cases..... | .25 | .26 | bags..... | .. | .65 |
| Coltsfoot Leaves, bags..... | .06 | .07 | Grinding, bags..... | .10 | .12 | Hemp Seed, Manchurian bags..... | .03 1/2 | .04 |
| Comfrey Root, bags..... | .13 | .14 | Powdered, bbls..... | .16 | .17 | Chilian, bags..... | .. | .. |
| Condurango Bark, bales..... | .14 | .15 | ERGOT, 150-200 lb bags..... | .53 | .55 | Henbane Leaves, bales, USP..... | .35 | .40 |
| Conium Seeds, bags..... | .. | .16 | Eucalyptus Leaves, bales..... | .. | .05 | Henna Leaves, bales..... | .16 | .35 |
| Copaiba Balsam Para, see Balsams | | | Euphorbia Pilulifera Herb, bags..... | .. | .20 | Powdered..... | .20 | .21 |
| Copal Gum..... | .12 | .15 | Fennel Seed, French, bags..... | .16 1/2 | .17 | Honey, Calif., 120 lb cases..... | .10 | .10 1/2 |
| Coriander Seed, Bombay bags..... | .05 | .10 | German, bags..... | .20 | .21 | Hops, N. Y. prime bales..... | .18 | .20 |
| Morocco, bags..... | .11 | .12 | Indian, bags..... | .10 1/2 | .13 | Pacific Coast prime bales..... | .16 | .18 |
| Bleached, bags..... | .15 | .15 1/2 | Flax Seed, whole 180 lb bbls..... | 13.00 | 13.50 | Horshound Herb, bales..... | .. | .11 |
| Corn Silk, bales..... | .05 | .05 1/2 | Ground, 180 lb bbls..... | .07 1/2 | .08 | Horsetail Rush, bags..... | .. | .16 |
| Cotton Root Bark, bales..... | .30 | .35 | Foenegreek Seed, 200 lb bags..... | .07 | .08 | India Gum, see Karaya | | |
| Cramp Bark, so-called bales..... | .. | .08 | Fish Berries, 100-125 lb bags..... | .03 1/2 | .04 | INSECT FLOWERS, open whole | | |
| True, bags..... | .. | .40 | Fringe Tree Bark, bags..... | .17 | .18 | bales..... | .. | .. |
| Cranesbill Root, bags..... | .10 | .11 | GALANGAL ROOT, bags..... | .08 | .09 | Cleod whole, bales..... | .. | .. |
| CUBEB BERRIES, XX bags..... | .80 | .85 | Gambler Gum, bags..... | .09 1/2 | .10 1/2 | Powdered, pure 200 lb bbls..... | .67 | .72 |
| Powdered, boxes..... | .. | .85 | Galbanum Gum, cans..... | 1.20 | 1.35 | Flowers and stems, 50 lb c. | | |
| Culvers Root, bags..... | .30 | .32 | Gamboge Gum, 160 lb cases..... | 1.05 | 1.17 | 200 lb bbls..... | .42 | .43 |
| Cumin Seed, Levant bags..... | .. | .. | Powdered, cases..... | 1.15 | 1.20 | Ipecac Root, Cartagena, bags..... | 1.70 | 1.75 |
| Morocco, bags..... | .25 | .26 | Gelsemium Root, bags..... | .11 | .11 1/2 | Powdered, 200 lb bbls, boxes..... | 1.90 | 1.95 |
| Cuttlefish Bone, Trieste, straps..... | .16 | .18 | Gentian Root, bags..... | .08 1/2 | .09 | Rio Whole, bags..... | 1.80 | 1.90 |
| Jewelry, large, straps..... | .. | .35 | Ginger, African, bags..... | .13 1/2 | .14 | Powdered, 200 lb bbls, boxes..... | 1.95 | 2.00 |
| Small, straps..... | .. | .35 | Jamaica, grinding, bags bbls..... | .37 | .44 | Isinglass, American, 130 lb cs..... | .65 | .70 |
| French, straps..... | .17 | .19 | Japan, bags..... | .. | .15 1/2 | Russian, (Beluga) bxs ctns..... | 8.50 | 9.00 |
| Powdered, boxes..... | .. | .13 | Cochin, ABC & lemon, bags..... | .14 1/2 | .15 | JABORANDI LEAVES, bales..... | .20 | .22 |
| Broken, boxes..... | .07 | .08 | Ginseng Root, cultivated, bags..... | 8.00 | 10.00 | Japan Root, whole, 150 lb bags..... | .31 | .35 |
| Damar Gum, 136 lb cases..... | .32 | .34 | Northwestern Wild, bags..... | 14.00 | 15.00 | Powdered, USP, 250 lb bbls..... | .40 | .42 |
| Damiana Leaves, bales..... | .11 | .12 | Southern Wild, bags..... | 10.00 | 12.00 | Japan Wax, 224 lb cases..... | .14 1/2 | .15 |
| Dandelion Root, Imp., bags..... | .14 | .16 | Golden Seal Root, bags..... | 3.50 | 3.55 | Job's Tears, white bags..... | .08 | .09 |
| Deer Tongue Leaves, bales..... | .07 1/2 | .08 | Powdered, boxes..... | 8.55 | 3.65 | Juniper Berries, 125 lb bags..... | .03 | .03 1/2 |
| Digitalis Leaves, bales..... | .06 1/2 | .08 | Grains of Paradise, bags..... | .12 | .14 | KAMALA, boxes..... | 2.60 | 2.75 |
| Dill Seed, bags..... | .09 1/2 | .10 | | | | Karaya Gum, powdered, bbls..... | .15 | .20 |

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|--------------------------------------|---------|---------|--------------------------------------|---------|---------|--------------------------------------|---------|---------|
| LADY SLIPPER ROOT, bags...lb | .50 | .52 | Musk, pods Cabardine, tins...cs | 16.00 | 17.00 | Patchouli Leaves, bales.....lb | .22 | .25 |
| Larspur Seed, bags.....lb | .31 | .35 | Tonquin.....cs | 22.00 | 25.00 | Pepper, black Sing, bags.....lb | .10 | .10 1/2 |
| Laurel Leaves, bales.....lb | .05 | .05 1/2 | Grain Cab.....cs | 25.00 | 26.00 | White, bags.....lb | .13 1/2 | .14 |
| Lavender Flowers, Ordinary...lb | .25 | .32 | Tonquin.....cs | 35.00 | 38.00 | Peppers, red Mombasa bags.....lb | .26 | .27 |
| Selected.....lb | .31 | .33 | Synthetic, see Chemicals.....lb | | | Cherries, bags.....lb | .16 1/2 | .17 |
| Leeches, tubs.....Per 100 | 7.00 | 7.50 | Musk Root, Russian bags.....lb | | | Bombay, bags.....lb | .15 | .15 1/2 |
| Lemon Peel, bags.....lb | .09 | .10 | Mustard Seed, Bari brown bags...lb | .08 1/2 | .09 | Japan, bags.....lb | .28 | .30 |
| Lemon Root, Russian whole...lb | .08 | .09 | Bombay, brown.....lb | .07 | .08 | Pennyroyal Herb, bales.....lb | .08 | .12 |
| Spanish, natural bales.....lb | .09 | .09 1/2 | California, brown.....lb | .09 | .09 1/2 | Peppermint Leaves, imp. bales...lb | .27 | .35 |
| Powdered, bbls.....lb | .10 | .11 | Yellow.....lb | .09 | .09 | Domestic leaf.....lb | .27 | .29 |
| Selected, 2 & 5 lb bundles...lb | .17 | .20 | Chinese, yellow.....lb | .04 | .04 1/2 | Peru Balsam, see Balsams.....lb | | |
| Cuttings, 125 lb bags.....lb | .07 1/2 | .08 | English, yellow.....lb | .08 1/2 | .09 | Pitch Leaves, bags.....lb | .23 | .25 |
| Life Everlasting Herbs, bales...lb | .05 | .06 | Dutch, yellow.....lb | .09 | .09 1/2 | Pimento, select bags.....lb | .04 1/2 | .04 1/2 |
| Lime Juice, clarified bbls.....gal | .50 | .60 | Danish, yellow.....lb | .08 1/2 | .09 | Pink Root, true bags.....lb | | 1.20 |
| Linden Flowers, with leaves, baleslb | .17 | .18 | Myrrh Gum, select 200 lb cs...lb | .38 | .40 | Pitch, Burgundy, see Burgundy Pitch | | |
| Without Leaves, bales.....lb | .35 | .36 | Sorts, cases.....lb | .36 | .38 | Pleurisy Root, bags.....lb | | .22 |
| Liverwort Leaves, bales.....lb | .20 | .22 | NUTGALLS, Chinese bags.....lb | .15 | .16 | Plantain Leaves, bales.....lb | | .15 |
| Lotelia Herb, bales.....lb | .20 | .21 | Aleppy, bags.....lb | .14 | .15 | Poke Berries, bags.....lb | | .15 |
| Lotelia Seed, bales.....lb | .55 | .60 | Nutmegs, 110s cases.....lb | .24 | .25 | Poke Root, bags.....lb | | .07 |
| Lorag Root, Imported, bags.....lb | | .25 | 75s, 80s cases.....lb | .26 | .27 | Pomegranate Bark, of root bags...lb | | .30 |
| Lupulin, boxes.....lb | 1.40 | 1.50 | Nux Vomica Buttons, bags.....lb | .06 1/2 | .07 | Of Fruit, bags.....lb | | .30 |
| Domestic.....lb | 1.30 | 1.40 | Powdered, 200 lb bbls.....lb | .10 1/2 | .11 | Of tree.....lb | | .30 |
| Lycopodium, 88 lb cs.....lb | .45 | .47 | OAK BARK, red bags.....lb | .05 | .06 | Poppy Flowers, red bags.....lb | .25 | .27 |
| MACE, Siam, No. 1 cases.....lb | .44 | .45 | White, bags.....lb | .06 | .07 | Poppy Seed, Dutch, bags.....lb | .11 | .12 |
| Banda, No. 1 cases.....lb | .50 | .52 | Oilbanum Gum, sift 280 lb cases...lb | .10 | .11 | German, bags.....lb | .11 1/2 | .12 |
| Rataria, cases.....lb | .38 | .39 | Tears, 280 lb cases.....lb | .13 | .14 | Turkish, bags.....lb | .06 | .08 |
| Malva Flowers, blue bales.....lb | .27 | .30 | No. 1, all white, 280 lb cases...lb | .21 | .22 | Blue Indian, bags.....lb | .08 | .08 1/2 |
| Black, bales.....lb | .65 | .75 | Opium, gum USP cases.....lb | | 7.00 | White Indian, bags.....lb | .07 | .07 1/2 |
| Manna, large flake cases.....lb | .56 | .58 | Granular, cans.....lb | | 8.00 | Prickly Ash Bark Southern, bags...lb | .14 | .14 1/2 |
| Small flake, cases.....lb | .30 | .32 | Powdered, USP cans.....lb | | 8.00 | Northern, bags.....lb | .14 | .14 1/2 |
| Sorts, cases.....lb | .30 | .32 | Orange Flowers, cases.....lb | | 1.00 | Prickly Ash Berries, bags.....lb | .11 | .13 |
| Mandrake Root, bags.....lb | .16 | .18 | Orange Peel, bitter bags.....lb | .06 1/2 | .07 | Prince's Pine, bales.....lb | .14 | .15 |
| Mastic Gum, 120 lb cases.....lb | .44 | .48 | Sweet, bags.....lb | .07 1/2 | .08 | Pulsatilla Herb, bags.....lb | .37 | .40 |
| Mazoreon Bark, bags.....lb | .11 | .12 | Orris Root Florentine bold bags...lb | .07 | .08 | Pumpkin Seed, bags.....lb | .14 | .16 |
| Matric Leaves, bales.....lb | .20 | .22 | Verona, bags.....lb | .05 | .06 | QUASSIA CHIPS, bags.....lb | .07 1/2 | .08 |
| Marjoram Leaves, German bales...lb | .17 | .18 | Powdered, 200 lb bbls.....lb | .08 | .09 | Queen of the Meadow Herb, bags...lb | | .06 |
| French, bales.....lb | .15 | .15 1/2 | Fingers, cases.....lb | .65 | .70 | Quince Seed, bags.....lb | 1.05 | 1.20 |
| Millet Seed, dom. yellow bags...lb | .03 1/2 | .05 | Ozokerite Wax brown hard bags...lb | .22 | .24 | RAPE SEED, South Amer. bags...lb | .07 | .07 1/2 |
| Montan, Wax, crude bags.....lb | .04 | .04 1/2 | Green, hard bags.....lb | .25 | .26 | Dutch, bags.....lb | .08 | .08 1/2 |
| Bleached.....lb | | | Refined, yellow bags.....lb | | | Japanese, small, bags.....lb | .35 | .40 |
| Moss, Iceland bales.....lb | .08 | .09 | PAPRIKA, bags.....lb | .17 | .24 | Raspberries, dried boxes.....lb | | .19 |
| Irish, bleached bales.....lb | .09 | .10 | Hungarian, bags.....lb | .27 | .37 | Red Saunders.....lb | .17 | .19 |
| Mullein Flowers, tins.....lb | | 1.35 | Pareira Brava Root, bags.....lb | .19 | .20 | Rhatany Root, bags.....lb | | .10 |
| | | | Parsley Seed, bags.....lb | .08 | .08 1/2 | RHUBARB, H. D. cases.....lb | .43 | .45 |
| | | | | | | Powdered, 200 lb bbls.....lb | .48 | .50 |
| | | | | | | Rosemary Leaves, bales.....lb | .04 1/2 | .05 |



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| | | | | | | | | |
|------------------------------------|---------|-----------|------------------------------------|---------|-----------|--------------------------------------|---------|-----------|
| Rosemary Flowers, cases bales..... | .28 | : .30 | Snake Root, Canada natural bags.. | .32 | : .33 | Tragacanth Gum, No. 1, ribbon, | | |
| Rose Petals, pale | .22 | : .25 | Stidipped, bags | ... | : .55 | 200 lb. cs. | 1.52 | : 1.55 |
| Red | ... | : .60 | SOAP BARK, whole, 150-200 lb. | | | No. 2 to No. 6, cases..... | 1.00 | : 1.50 |
| Rue Herb, bales..... | .30 | : .35 | bales | .07 1/2 | : .08 | Powdered, 50 lb. boxes..... | 1.00 | : 1.50 |
| SABADILLA SEED, bags..... | .12 | : .12 1/2 | Cut, 125-175 lb. bags..... | .08 1/2 | : .09 | Turkish, cases | .75 | : .90 |
| Powder, bbls | .16 | : .17 | Crushed, 200 lb. bbls..... | .09 1/2 | : .10 | Turneric Root, Madras bags..... | .09 1/2 | : .09 1/2 |
| Saffron Flowers, Amer. bales..... | 1.15 | : 1.25 | Powdered, 200 lb. bbls..... | .14 | : .15 | Aleppy, bags | .07 1/2 | : .08 |
| Valencia, 1 lb. cans..... | 43.00 | : 45.00 | Spearmint Leaves, American bales.. | .23 | : .24 | China, bags | .07 | : .07 1/2 |
| Sage, Dalmatian bales..... | .05 1/2 | : .06 1/2 | Spermaceti, blocks cakes cases.... | .36 | : .37 | Turpentine, Venice, true 80 lb. cs.. | .20 | : .22 |
| Greek, bales | .03 1/2 | : .04 | Spikenard Root, bags..... | .15 | : .16 | Artificial, 80 lb. cases..... | .14 | : .15 |
| Spanish, bales | .03 | : .03 1/2 | Spruce Gum, boxes..... | 1.00 | : 1.50 | Spirits, see Naval Stores | | |
| Sandalwood, chips bags..... | ... | : .30 | Squaw Vine, bales..... | ... | : .17 | UNICORN ROOT, false, see Helonia | | |
| Ground, bags | ... | : .35 | Squill Root, white bags..... | ... | : .04 | True, see Aletris | | |
| Sandarac Gum, 300 lb. bbls..... | .23 | : .25 | Stavesacre Seed, bags..... | .28 | : .29 | Uva Ursi Leaves, bales..... | .05 1/2 | : .06 1/2 |
| Sarsaparilla, Honduras, bales.... | .60 | : .65 | Stillingia Root, bags | .11 | : .12 | VALERIAN ROOT, Belgian bags.. | .11 1/2 | : .12 |
| Mexican, bales | .35 | : .36 | Stone Root, bags..... | .09 | : .10 | Vanilla Beans Mex. whole cases.. | 8.50 | : 11.00 |
| Sassafras Bark, ordinary bales.... | .12 | : .14 | Storax, liquid artif..... | .70 | : .75 | Cuts, cases | 6.50 | : 7.00 |
| Select, bales | .22 | : .28 | Gen. USP | .90 | : 1.00 | Bourbon, cases | 4.50 | : 5.00 |
| Savory Leaves, bales..... | .09 1/2 | : .10 | St. Ignatius Beans, bags..... | .22 | : .23 | South American, cases..... | 6.00 | : 6.50 |
| Saw Palmetto Berries, bags..... | .12 | : .13 | St. John's Bread, bags..... | .04 | : .06 | Tahiti, yellow label cases..... | ... | : ... |
| Scammony Resin, boxes..... | 1.15 | : 1.25 | Stramonium Leaves, bales..... | .07 | : .07 1/2 | Green Label, cases..... | ... | : ... |
| Scammony Root, bags..... | .06 1/2 | : .07 | Stramonium Seed, bags..... | .12 | : .13 | Violet Flowers, bags..... | .65 | : .70 |
| Senna Root, bags | .67 | : .72 | Strophanthus Seed, Hispidus..... | ... | : ... | WAHOO BARK, of root bags..... | .90 | : .95 |
| SENNA, Alex, 150 lb. cases..... | .30 | : .31 | Kombe, bags | .30 | : .35 | Of Tree, bags | .43 | : .45 |
| Half Leaf, 350 lb. bales..... | .17 | : .20 | Sunflower Seed, domestic bags.... | .07 | : .07 1/2 | White Pine Bark, rossed, bags.. | .06 1/2 | : .07 1/2 |
| Sitings, 400 lb. bales..... | .09 1/2 | : .10 | South American, bags..... | .06 1/2 | : .07 | White Poplar Bark, bags..... | .04 | : .05 |
| Powdered, 200 lb. bbls..... | .12 | : .13 | TAGALDER BARK, bags..... | ... | : .05 | Wild Cherry Bark, thin green | | |
| Timonevly, job, 350 lb. bales.... | .11 | : .13 | Tamarinds, bbls..... | ... | : .05 1/2 | Rossed, bales | .10 | : .12 |
| Grinding, 350 lb. bales..... | .05 | : .08 | Keys | 3.25 | : 3.50 | Thick Rosed, bales..... | .07 | : .07 1/2 |
| Powdered, 200 lb. bbls..... | .08 | : .08 1/2 | Tansy Herb, bales | .14 | : .15 | Thin Natural, bales | .10 | : .11 |
| Poda, 350 lb. bales..... | .06 | : .06 1/2 | Tar, Barbadoes, 50 gal. bbls..... | 1.60 | : 1.75 | Thick Natural, bales | .07 | : .08 |
| Serpentaria Root, bags..... | .80 | : .85 | Thus Gum, 250 lb. bbls..... | ... | : .05 1/2 | Willow, bark bags..... | ... | : .06 |
| Shellac, T.N., bags..... | .63 | : .65 | Thyme, Spanish bales..... | ... | : .08 | White, bags | ... | : .15 |
| Superfine Orange, bags..... | .67 | : .80 | French, bales | ... | : .11 | Witch Hazel Bark, bags..... | ... | : .06 |
| D. C., bags | ... | : .89 | Thilia .See Linden | | | Witch Hazel Leaves, bales..... | ... | : .07 1/2 |
| V. S. O., cases..... | ... | : .89 | Tolu Balsam, see Balsams | | | Worm Seed, American bags..... | .10 | : .11 |
| Pad. reg., 350 lb. bbls..... | .75 | : .77 | Tonga Bark, bags | .30 | : .31 | Lerant bags | 3.50 | : 3.75 |
| Regular Bleached, 350 lb. bbls.. | ... | : .79 | Tonka Beans, Angostura, cases.... | 2.00 | : 2.10 | Wormwood Herb, imported bales.. | ... | : .10 |
| Bone, Dry, 350 lb. bbls..... | ... | : .81 | Para, cases | .80 | : .85 | Yacca Gum, red..... | .04 | : .04 1/2 |
| Simaruba Bark, bales..... | .11 | : .12 | Surinam, cases | .85 | : .95 | Ground | .05 1/2 | : .06 1/2 |
| Sideritis Herb, cut bags..... | ... | : .18 | | | | YELLOW DOCK ROOT, bags..... | .13 | : .15 |
| Snillcap Leaves, bales | ... | : .38 | | | | Yellow Parilla Root, bags..... | .16 | : .17 |
| Sloe Berries, bags | .03 | : .04 | | | | Yerba Santa, bags..... | .11 | : .12 |
| | | | | | | Zedoary Root, bags..... | .10 | : .11 |

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Essential Oils

| | | |
|-----------------------------------------|-------|-------|
| Almond, Bitter USP 5 lb. bot. | 3.75 | 4.00 |
| Bitter ff PA 5 lb. bot. | 3.75 | 4.00 |
| Artificial (See Benzaldehyde—Chemicals) | | |
| Sweet, 56 lb. cans | .34 | .36 |
| Peach Kernel, 55 lb. tins | .25 | .27 |
| Apricot, see Peach Kernel | | |
| Amber, crude 25 lb. tins | .85 | .90 |
| Rectified, 25 lb. tins | 1.00 | 1.10 |
| Angelic Root, 1 lb. bot. | 39.00 | 39.00 |
| Seed, 1 lb. bot. | 36.00 | 38.00 |
| ANISE, Tech., 66 lb. case | .45 | .50 |
| USP 50 lb. tins | .52½ | .55 |
| Bay, 25 lb. tins | 2.50 | 2.60 |
| Bergamot, 25 lb. coppers | 2.60 | 2.70 |
| Artificial, 25 lb. cans | 2.00 | 2.25 |
| Birch Tar, rect. 5 lb. bot. | 1.10 | 1.15 |
| Crude, 50 lb. tins | .60 | .65 |
| Bals de Rose, 25 lb. tins | 2.50 | 2.65 |
| Cade, USP, 25 lb. tins | .35 | .40 |
| USP, 5 lb. bot. | .45 | .50 |
| Calaput, native, 50 lb. tins | .80 | .85 |
| Calamus, 5 lb. bot. | 4.25 | 4.75 |
| Camphor, heavy, 1000 lb. drums | 11½ | 12 |
| Japanese, white, 72 lb. cases | 13½ | 15 |
| White, 1000 lb. drums | 13 | 15 |
| Cananga, Native 25 lb. tins | 2.25 | 2.50 |
| Rectified, 25 lb. tins | 2.50 | 2.75 |
| Caraway, USP | 7.25 | 7.50 |
| Cardamom, USP, 1 lb. bot. | 20.00 | 22.00 |
| Carrot, 5 lb. bot. | 10.00 | 10.50 |
| CASSIA, 75-80 p.c. 66 lb. cases | 2.15 | 2.35 |
| Redistilled, USP, 50 lb. cans | 3.00 | 3.10 |
| Cedar Leaf, 50 lb. tins | 1.10 | 1.20 |
| Cedar Wood, light 1000 lb. drums | .26 | .28 |
| Celery, 1 lb. bot. | 8.50 | 9.00 |
| Cinnamon, Ceylon 1 lb. bot. | 11.00 | 12.50 |
| Leaf, 5 lb. bot. | ... | 2.00 |
| CITRONELLA, Ceylon, 1000 lb. drs. | .70 | .71 |
| 50 lb. tins | .72 | .74 |
| Java, 400 lb. drums | ... | .85 |
| 50 lb. tins | ... | .87½ |
| Cloves, USP, 50 lb. cans | 1.75 | 1.85 |
| 6 lb. bot. | 1.85 | 1.95 |

| | | |
|------------------------------------|-------|--------|
| Copaiba, USP, 50 lb. tins | .35 | .40 |
| Coriander, USP, 1 lb. bot. | 20.00 | 21.50 |
| Crotton, USP, 25 lb. tins | 1.00 | 1.10 |
| Cubeba, USP, 5 lb. bot. | 6.00 | 6.25 |
| Cumin, 1 lb. bot. | 15.00 | 20.00 |
| Dill, 1 lb. bot. | 4.50 | 5.00 |
| Erigeron, 20 lb. tins | .90 | 1.00 |
| EUCALYPTUS, Austral. USP | | |
| 56 lb. cs. | .47½ | .50 |
| 500 lb. drums | ... | .45½ |
| Fennel USP, 25 lb. tins | 1.10 | 1.20 |
| Geranium, Algerian, 25 lb. tins | 8.00 | 8.50 |
| Bourbon, 25 lb. tins | 6.75 | 7.00 |
| Turkish, 25 lb. tins | 4.75 | 5.00 |
| Ginger, 1 lb. bot. | 5.75 | 6.00 |
| Gingergrass, 25 lb. tins | 2.75 | 3.00 |
| Hemlock, 50 lb. cans | ... | 1.55 |
| Juniper Berries, USP, 25 lb. tins | 1.25 | 1.35 |
| Wood, 50 lb. tins | .60 | .70 |
| Lavender, USP, 25 lb. tins | 2.75 | 3.50 |
| Spice, Spanish 50 lb. cans | .70 | .80 |
| LEMON, Ital. USP, 25 lb. tins | .80 | .90 |
| American, USP, 25 lb. tins | .75 | .80 |
| Lemongrass, native, 50 lb. cans | .80 | .85 |
| Limes, express 25 lb. tins | 1.70 | 1.80 |
| Distilled, 25 lb. tins | .80 | .85 |
| Linaloe, Mex. 80 lb. cases | 2.15 | 2.35 |
| Mace, distilled, 50 lb. tins | ... | .80 |
| Mirbane, ref., see Ar. Chemicals | | |
| Mustard, USP, 1 lb. bot. | ... | 17.00 |
| Artif., USP, 5 lb. bot. | 2.60 | 2.70 |
| Neroli, Bigarade, ¼ and 1 lb. bot. | 75.00 | 100.00 |
| Petale, 1 lb. bot. | 90.00 | 115.00 |
| Artificial, 1 lb. bot. | 10.00 | 25.00 |
| Nutmeg, USP, 25 lb. tins | ... | .90 |
| Orange, bitter, 25 lb. tins | 2.60 | 2.75 |
| Sweet, W. Ind. 25 lb. tins | 2.60 | 2.70 |
| Italian, 25 lb. tins | 3.10 | 3.20 |
| American, 25 lb. tins | 2.80 | 2.85 |
| Origanum, 50 lb. c- ^{ny} | .30 | .35 |
| Parsley, 1 lb. bot. | 3.50 | 4.00 |
| Patchouli, 5 lb. bot. | 8.00 | 8.50 |
| Pennyroyal, dom 25 lb. tins | 1.95 | 2.25 |
| Imported, 25 lb. tins | 1.75 | 1.90 |
| PEPPERMINT, nat. 60 lb. cases | 2.65 | 2.80 |
| Redist., USP, 60 lb. cases | 2.90 | 3.05 |

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|----------------------------------------|-------|-------|
| Petit Grain, S. Am. 25 lb. tins | 1.55 | 1.65 |
| French, 1 lb. bot. | 6.50 | 7.00 |
| Pimento, 25 lb. tins | 1.85 | 1.95 |
| Pinus Sylvestris, 25 lb. tins | ... | 1.75 |
| Pumilio, USP 25 lb. tins | ... | 2.75 |
| Rose, Fr., 8, 15 & 32 oz pkgs. | 5.50 | 6.00 |
| Bulg., 8, 16 & 32 oz pkgs. | 5.50 | 6.00 |
| Artificial, 1 lb. bot. | 2.00 | 3.00 |
| Rosemary, USP, 27½ lb. tins | .45 | .48 |
| 1000 lb. drums | ... | .42½ |
| Tech., 27½ lb. tins | .40 | .45 |
| Rue, 1 lb. bot. | ... | 4.25 |
| Sandalwood, E. Ind. USP, 76 lb. cases | 7.85 | 8.00 |
| W. Indian, (Amyris) 25 lb. tins | 3.75 | 3.90 |
| Sassafras, USP, 50 lb. cans | 1.00 | 1.10 |
| Artificial, 65 lb. cans, 1000 lb. drs. | ... | .45 |
| Savin, 5 lb. tins | ... | 3.25 |
| Spearmint, USP, 60 lb. cases | 2.50 | 2.60 |
| Spruce, 50 lb. tins | ... | 1.55 |
| Tansy Amer., 20 lb. tins | 7.00 | 7.25 |
| Tar, 50 gal. bbls. | .24 | .25 |
| Refined, USP 25 lb. tins | ... | ... |
| Thyme, red, USP 25 lb. tins | 1.00 | 1.10 |
| White, USP 25 lb. tins | 1.10 | 1.15 |
| Crude, 110 lb. drums | .85 | .90 |
| Vetiver, Bourbon 1 lb. bot. | 5.50 | 6.00 |
| Java, 1 lb. bot. | 22.00 | 24.00 |
| Wine, heavy 1 lb. bot. | ... | 2.75 |
| WINTERGREEN | | |
| Sweet hch, 25 lb. tins | 2.90 | 3.00 |
| Gaultheria, true 25 lb. tins | 4.00 | 7.00 |
| Synthetic, USP, 50 lb. cases | .57 | .62 |
| Wormseed Balt., USP, 25 lb. tins | 7.00 | 7.50 |
| Wormwood, dom., 25 lb. tins | 6.50 | 6.75 |
| Ylang Ylang, Bourbon 10 lb. tins | 5.50 | 6.00 |
| Manila, 1 lb. bot. | 30.00 | 40.00 |
| Artificial, 1 lb. bot. | 10.00 | 12.00 |
| OLEORESINS | | |
| Aspidium, USP 1 lb. bot. | 2.75 | 3.00 |
| Capsicum, USP, 5 lb. bot. | 2.50 | 2.75 |
| Cubeb, USP, 1 lb. bot. | 4.75 | 5.00 |
| Ginger, 5 lb. bot. | 3.00 | 3.10 |
| Malefern, See Aspidium | | |
| Orris, 1 lb. bot. | ... | 18.00 |
| Pepper, black, USP, 1 lb. bot. | 3.50 | 4.00 |
| Vanilla, 1 lb. bot. | 8.00 | 9.00 |

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NATURAL DERIVATIVES

| | | |
|---------------------------------------|-------|---------|
| Anethol, 25 bot.....D | 1.60 | : 3.00 |
| Borneol, 1 lb bot.....D | ... | : 3.50 |
| Citronellal, 1 lb bot.....D | 2.00 | : 2.25 |
| CITRAL, 25 bot cans.....D | 2.75 | : 3.00 |
| EUCALYPTOL, USP, 25 bot cans.....D | .80 | : .85 |
| Eugenol, USP, 25 bot cans.....D | 2.85 | : 3.25 |
| Geraniol, Domestic, 50 bot cans.....D | 3.00 | : 3.50 |
| Imported, 50 bot.....D | 3.00 | : 3.50 |
| Iso-Eugenol, 1 lb bot.....D | 4.50 | : 5.00 |
| Imported.....D | 6.50 | : 7.00 |
| Linalool, 5 bot.....D | 7.00 | : 7.25 |
| MENTHOL, 60 bot cases.....D | ... | : 7.75 |
| Less cases, 5 bot cases.....D | 8.00 | : 8.10 |
| Rhodinol, 1 lb bot.....D | 15.00 | : 20.00 |
| SAFROL, 60 bot cans.....D | .55 | : .57 |
| Thymol, USP, 10 bot cans.....D | 3.25 | : 3.50 |

SYNTHETIC AROMATICS

| | | |
|---------------------------------------------|-------|---------|
| Acetaldehyde, 50% sol pure, 5 bot bot.....D | 1.75 | : 2.00 |
| Acetophenone CP, 1 lb bot.....D | 4.00 | : 4.25 |
| Amyl Acetate, pure, 5 gal cans gal.....D | 6.00 | : 7.00 |
| Amyl Butyrate, 1 lb bot.....D | 2.00 | : 2.10 |
| Amyl Formate, 1 lb bot.....D | 1.75 | : 2.00 |
| AMYL SALICYLATE, 100 bot chys.....D | 1.45 | : 1.60 |
| Anisole Aldehyde, 1 lb bot.....D | 3.40 | : 4.00 |
| BENZALDEHYDE, USP, 40 bot chys.....D | 1.50 | : 1.60 |
| FFC, 40 bot chys.....D | 1.75 | : 1.85 |
| Benzotic Ether, See Ethyl Benzate | | |
| Benzyl Acetate, 100 bot chys.....D | 1.25 | : 1.40 |
| Benzyl Alcohol, 5 bot.....D | 1.50 | : 1.75 |
| BENZYL BENZOATE, 5 bot.....D | 1.60 | : 1.75 |
| Medicinal FFC.....D | 1.75 | : 2.00 |
| Benzyl Formate, 1 lb bot.....D | 2.50 | : 3.00 |
| Bromistrol, 25 bot kgs.....D | 4.00 | : 4.25 |
| Butyric Ether, See Ethyl Butyrate | | |
| Cinnamic Acid, 5 bot cans.....D | 3.00 | : 3.25 |
| Cinnamic Alcohol, liquid 1 lb bot.....D | 10.00 | : 12.00 |
| Crystallizable.....D | 12.00 | : 15.00 |

| | | |
|--------------------------------------------|-------|---------|
| Cinnamic Aldehyde, 1 lb bot.....D | 3.20 | : 3.50 |
| CITRONELLAL, 1 lb bot.....D | 8.00 | : 14.00 |
| COUMARIN, 25 bot cans.....D | 4.50 | : 4.75 |
| DIETHYL PHTHALATE, 25 bot cans.....D | .65 | : .75 |
| Diphenylchloride, 25 bot tins.....D | .85 | : .90 |
| Ethyl Acetate, pure, 5 bot bot.....D | .45 | : .50 |
| Ethyl Benzoate, 5 bot bot.....D | 1.85 | : 2.00 |
| Ethyl Butyrate, 5 bot bot.....D | 2.00 | : 2.25 |
| Ethyl Cinnamate, 1 lb bot.....D | 4.50 | : 5.00 |
| Ethyl Formate, 5 bot bot.....D | .95 | : 1.00 |
| Ethyl Valerate, 5 bot bot.....D | 4.50 | : 4.75 |
| Formic Ether, See Ethyl Formate | | |
| Geranyl Acetate, 1 lb bot.....D | 4.25 | : 4.75 |
| Heliotropin, dom., 10 bot.....D | 2.00 | : 2.25 |
| Imported.....D | 2.25 | : 2.50 |
| Indol, CP, 1 bot.....D | 8.50 | : 9.00 |
| Ionone, 1 lb bot.....D | 5.00 | : 9.00 |
| Alpha.....D | 10.00 | : 12.00 |
| Beta.....D | 9.00 | : 11.00 |
| Methyl.....D | 12.50 | : 15.00 |
| Linalyl Acetate, 1 lb bot.....D | 7.00 | : 10.00 |
| Linalyl Benzoate, 1 lb bot.....D | 13.00 | : 14.00 |
| METHYL ANTHRANILATE dom., 1 lb bot.....D | 3.50 | : 4.00 |
| Imported.....D | 4.50 | : 5.00 |
| Methyl Cinnamate, 1 lb bot.....D | 4.00 | : 4.50 |
| Methyl Paracresol, 1 lb bot.....D | 8.00 | : 9.00 |
| METHYL SALICYLATE, USP 500 bot drums.....D | .55 | : .60 |
| 50 bot cases.....D | .57 | : .62 |
| Second Hands.....D | ... | : .55 |
| Mirbane, rect. 1000 bot drums.....D | 12½ | : 14 |
| Musk Ambrette, 1 lb cans.....D | 14.50 | : 16.50 |
| Musk Ketone, 1 lb cans.....D | 13.00 | : 14.00 |
| Musk Xylene, 5 bot cans.....D | 2.90 | : 3.15 |
| Nerolin, 1 lb cans.....D | 1.75 | : 2.00 |
| Phenylacetalddehyde, Dom., 1 lb bot.....D | 9.00 | : 11.00 |
| Imported.....D | 2.00 | : 4.00 |
| Phenylacetic Acid, 1 lb bot.....D | 8.00 | : 14.00 |
| PHENYLETHYLALCOHOL dom., 1 lb bot.....D | 8.00 | : 9.00 |
| Imported.....D | 8.50 | : 10.00 |

| | | |
|--------------------------------------|-------|---------|
| Phenylpropylalcohol, 1 lb bot.....D | 15.00 | : 16.00 |
| TERPINEOL, CP, 1000 bot drums.....D | .50 | : .55 |
| Cans 50 bot.....D | .55 | : .57 |
| Imported, 25 bot cans.....D | 1.00 | : 1.25 |
| Terpinyl Acetate, 25 bot cans.....D | 1.65 | : 1.85 |
| VANILLIN, USP, 400 oz. cans.....oz | .41 | : 41½ |
| Cans, 16 oz., 80 oz.....oz | .41½ | : 42½ |
| Valerianic Ether. See Ethyl Valerate | | |
| Yara Yara, 1 lb cans.....D | 1.75 | : 2.00 |

PERFUMERS' SUNDRIES

| | | |
|--------------------------------------------|-------|---------|
| Almond Meal, 25 bot cans.....D | .28 | : .30 |
| Ambergris, black, bxs.....D | ... | : 8.00 |
| Ambergris, gray, bxs.....D | ... | : 28.00 |
| Balsam Copaliba, Para, 80 bot cases.....D | .23 | : .24 |
| South American, 80 bot cases.....D | .28 | : .29 |
| Balsam Peru, 60 bot cans.....D | 1.75 | : 1.80 |
| Balsam Tolu, 90 bot cases.....D | 1.00 | : 1.10 |
| Benzoin Gum, Siam, bxs.....D | 1.10 | : 1.15 |
| Castoreum, 1 lb bot.....D | 4.00 | : 4.50 |
| Chalk, precip. light, 175 bot bbls.....D | .04½ | : .05 |
| Cherry Laurel Water, 5 gal cans gal.....D | 1.15 | : 1.25 |
| Civet Abyssin, horns.....D | 2.75 | : 3.75 |
| Labdanum, 5 bot bot.....D | ... | : 8.00 |
| Lanolin hydrous, 350 bot bbls.....D | .21 | : .22 |
| Anhydrous, 350 bot bbls.....D | .23 | : .24 |
| Musk pods, Cabardine, tins.....D | 16.00 | : 17.00 |
| Tonquin, tins.....D | 22.00 | : 25.00 |
| Grains, Cabardine, tins.....D | 25.00 | : 26.00 |
| Tonquin, tins.....D | 35.00 | : 38.00 |
| Synthetic, See Aromatic Chemicals | | |
| Orris Rt. Flor., powd. bbls.....D | .09 | : .11 |
| Verona, bbls.....D | .08 | : .09 |
| Petrolatum, snow white, 350 bot bbls.....D | ... | : 12½ |
| Light Amber, 350 bot bbls.....D | ... | : 10½ |
| Rice Starch, 140 bot bgs.....D | .04 | : .04½ |
| Rose Water, 5 gal chys.....gal | .90 | : 1.10 |
| Sandalwood chips, powd., bags.....D | .30 | : .35 |
| Saponin, 5 bot tins.....D | 1.25 | : 1.50 |
| Talc Italian, 220 bot bgs.....ton | 42.00 | : 55.00 |
| Talc French, 220 bot bgs.....ton | 32.00 | : 45.00 |
| Talc, domestic ref., 100 bot bags.....ton | 20.00 | : 30.00 |

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AGAR—75 bbls., Shima Trdg. Co., Osaka; 10 bbls., Far East Imp'tg. Co., Kobe; 15 bbls., N. Y. Trust Co., Kobe; 10 bbls., Nat. City Bank, Kobe

ALOE—20 cs., Brown Bros. & Co., London

AMMONIUM SALTS—Carbonate, 10 csks., 10 bbls., Brown Bros. & Co., Liverpool; Chloride, 125 cs., Wing & Evans, Liverpool; Perchlorate, 20 csks., C. W. Campbell & Co., Marseilles

AMYLACETATE—15 drs., Lunham & Moore, Rotterdam

ANTIMONY—Oxide, 100 bgs., Banque Belge Pour Etranger, Shanghai; 500 bgs., China Hide & Prod. Co., Hankow; **Regulus**, 750 cs., Order, Shanghai; 1,000 cs., Banque Belge Pour Etranger, Shanghai; 1,000 cs., Sino Java Handels, Shanghai; 331 cs., Order, Hongkong; 49 csks., J. Watson & Co., Hongkong; 250 cs., Guaranty Trust Co., Hankow; 500 cs., China Hide & Prod. Co., Hankow; 300 cs., Order, Hankow; 709 cs., Asia Bkg. Corp., Shanghai; 250 cs., Wah Chang Trdg. Co., Shanghai

ARSENIC—203 bbls., Amer. Metal Co., Tampico; 250 cs., Chipman Chem. Eng. Co., Kobe; 371 cs., J. D. Lewis, Kobe; 83 cs., Collinge Dawson Co., Kobe; 20 cs., McKenzie & Foster, Kobe; 283 cs., S. W.

Bridges Co., Kobe; 149 cs., Frazer & Co., Kobe; 140 cs., Busk & Daniels, Kobe; 239 cs., Order, Kobe; 100 cs., Mitsui & Co., Yokohama

BAY RUM—10 csks., Lehn & Fink, St. Thomas

CAMPOR—100 cs., Suzuki & Co., Shanghai

CASEIN—340 bgs., A. Klipstein & Co., Auckland; 677 bgs., Asia Bkg. Corp., Auckland; 630 bgs., Bankers Trust Co., Auckland; 481 bgs., Order, Melbourne; 162 bgs., Nat. City Bank, Havre; 1,669 bgs., T. M. Duche & Sons, Buenos Aires; 298 bgs., Casein Mfg. Co., Bombay; 163 bgs., Order, Bombay; 109 bgs., Monite Waterproof Co., Havre

CERIUM—Nitrate, 10 cs., C. F. Smillie Co., Yokohama

CHALK—40 csks., McKesson & Robbins, Liverpool; 25 csks., McKesson & Robbins, Bristol; 500 pkgs., H. J. Baker & Bro., Bristol; 300 tons, Baring Bros. & Co., London; 500 tons, Baring Bros. & Co., London; 500 tons, J. W. Higman Co., Dunkirk; **Precipitated**, 245 csks., 333 bgs., H. J. Baker & Bro., Bristol; 25 csks., McKesson & Robbins, Bristol; 50 csks., Schieffelin & Co., Bristol

CHEMICALS—181 drs., Mallinckrodt Chem. Wks., London; 18 drs., A. Pauchot, Inc., London; 100 csks., Pomeroy & Fischer, Marseilles

CLAY—1,124 tons, Moore & Munger, Bristol; 200 tons, J. Richardson Co., Bristol; 200 tons, Trenton Flint & Spar Co., Bristol; 100 tons, J. W. Hampton, Jr. & Co., Bristol; 400 tons, Hammill & Gillespie, Bristol; 9 csks., Hadfield Penfield Steel Co., Havana; 5 cs., Tice & Lynch, Gothenburg; 1 bg., Amer. Pipe Clay Co., Bristol; 150 tons, C. Knowles, Bristol; 510 tons, Paper Makers Mfg. Co., Bristol; 138 tons, Moore & Mur-

ger, Bristol; China, 200 bgs., 100 csks., Order, Bristol

COAL TAR DISTILLATE—75 drs., Order, London

COLOCYNTH—84 bbls., Intern. Bank Egypt, Port Sudan

COLORS—13 csks., Irving Bank Columbia Trust Co., Liverpool; 2 csks., Kuttroff, Pickhardt & Co., Liverpool; 10 csks., Reichard Coulston, Havre; 96 csks., Ciba Co., Havre; 119 bbls., Natl. Aniline & Chem. Co., Barcelona; 5 csks., 5 cs., H. A. Metz Co., Rotterdam; 3 bbls., Kuttroff, Pickhardt, Rotterdam; 5 bbls., W. Van Doorn Co., Rotterdam; **Aurine**, 5 csks., Fezandie & Sperrle, Liverpool; **Bronze**, 46 cs., Baer Bros., Bremen; **Earth**, 73 csks., Fezandie & Sperrle, Bremen

COPPER—Sulfate, 200 csks., Order, Swansea; 50 csks., Farmers Loan & Trust Co., Bristol; 120 bbls., Order, Marseilles

COPRA—1,780 bgs., Atkins Kroll & Co., Papeete; 4,857 bgs., A. B. Donald, Papeete; 16 bgs., Franklin Baker Co., Montego Bay, 265 bgs., Franklin Baker Co., St. Anna Bay

CRESOL—Crystals, 3 drs., W. E. Jordan Bros., Liverpool

DEXTRINE—40 bgs., Nat. Gum & Mica Co., Rotterdam

DIVI DIVI—517 bgs., Selma Merc. Corp., Curacao; 75 bgs., Intern. Fwdg. Co., Maracaibo

EARTH—40 bbls., Order, Barcelona; **Red**, 18 csks., Hummel & Robinson, Bristol; 56 csks., Order, Bristol; 370 pkgs., G. Z. Collins & Co., Bristol; 137 csks., Order, Bristol

EPSOM SALT—1,000 bgs., E. Suter Co., Bremen

EXTRACTS—Archil Liquor, 13 csks., W. A. Ross & Co., Liverpool; **Sumac**, 15 csks., Amer. Dyewood Co., Glasgow; **Quebracho**, 1,024 bgs., Order, Buenos Aires



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FULLER'S EARTH—250 bgs., L. A. Salomon & Bro., Bristol; 100 bgs., I. A. Salomon & Bro., Bristol
GAMBIER—109 cs., Order, Singapore
GALLNUTS—300 cs., Bradford Co., Hankow
GELATIN—30 csks., Order, Marseilles; 10 bbls., H. A. Sinclair Co., Rotterdam
GLAUBER SALTS—104 bbls., Farmers Loan & Trust Co., Hamburg
GLYCERIN—4 cs., Order, London; 15 drs., Harshaw Fuller & Goodwin, Havana
GLUE—597 csks., W. R. Grace & Co., Valparaiso; 160 bgs., Natl. Gum & Mica Co., London; 130 bgs., C. H. Hemmel, London; 100 bgs., Amer. Glue Co., Bristol; 20 bgs., General Adhesive Mfg. Co., Liverpool
GUMS—385 bgs., Order, Singapore; 9 bgs., White Star Line, Alexandria; Arabic, 250 bgs., Anderson Hillier Co., Port Sudan; 250 bgs., Caracanda Bros., Port Sudan; 1,200 bgs., Thurston & Braidich, Port Sudan; 210 bgs., Guaranty Trust Co., Port Sudan; 350 bgs., Irving Bank, Port Sudan; 250 bgs., Order, Port Sudan; 880 bgs., Thurston & Braidich, Port Sudan; 100 bgs., Caracanda Bros., Port Sudan; 250 bgs., Anderson Hillier Co., Port Sudan; 180 bgs., Guaranty Trust Co., Bombay; Benzoin, 25 cs., Order, Rotterdam; Copal, 70 bgs., 50 cs., Baring Bros. & Co., Singapore; 50 cs., Irving Bank Columbia Trust Co., Singapore; 119 bsks., Kidder Peabody & Co., Singapore; 70 bgs., Order, Singapore; 80 bgs., Brown Bros. & Co., Antwerp; 600 bgs., Equitable Trust Co., Antwerp; 1 bgs., J. H. Lincoln Brokerage Co., Antwerp; 300 bgs., A. Hurst & Co., Antwerp; 57 bgs., L. C. Gillespie & Sons, Havre; Damar, 50 cs., L. C. Gillespie & Sons, Singapore; 140 bgs., 100 cs., Baring Bros. & Co., Singapore; 100 cs., Irving Bank Columbia Trust Co., Singapore; 300 cs., Bank of Manhattan, Batavia; 50 cs.,

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JUICE—Lime, 12 csks., 1 pipe Evans Sons, Lescher & Webb, Dominica; Paw Paw, 14 cs., Chase Nat. Bank, London
LEAVES—45 bls., Order, Port Sudan; 6 bls., F. B. Vandegrift & Co., Marseilles; 7 bls., S. B. Penick & Co., Marseilles; Belladonna, 34 bls., First Nat. Bank Minneapolis, London; Borage, 4 bls., Armand Gaidan Freres & Co., Marseilles; Patchouli, 55 cs., Order, Singapore; Rue, 5 bls., Armand Gaidan Freres & Co., Marseilles; Thyme, 231 csks., F. N. Matos, Alicante; Uva Ursi, 275 csks., Order, Alicante; Whortleberry, 5 bls., J. Schoenegan, Marseilles
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LIME—Citrate, 4 bbls., 5 csks., A. Panno, Alicante

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MYROBALANS—5,600 pkts., First Nat. Bank Boston, Colombo; 8,480 pkts., Order, Colombo; 1,359 bgs., Brit. Bank of So. Amer., Vizagapatam; 600 bgs., 11,336 pkts., Order, Calcutta; 2,312 bgs., Fourth Atlantic Nat. Bank, Bombay; 4,766 bgs., Order, Bombay; 4,300 pkts., Nat. City Bank, Calcutta; 5,046 pkts., Standard Bank So. Africa, Calcutta
NAPHTHALENE—200 bgs., Barrett M., Bristol; 165 bgs., Irving Bank, London; 317 bgs., Order, Bristol; 80 cs., Stellar Products Corp., Hamburg; 3,349 bgs., Lunham & Moore, Rotterdam
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OCHRE—170 csks., J. L. Smith & Co., Marseilles; 351 csks., Reichard Coulston, Marseilles; 451 csks., Metropolitan Trust Co., Marseilles; 180 csks., Amer. Exch. Nat. Bank, Marseilles; 24 bbls., C. J. Osborn, Valencia
OILS—Coconut, 94 pkgs., Order, Cochinchina; 114 pipes, Volkart Bros., Cochinchina; 200 csks., R. Badoeck & Co., St. Johns; 200 bbls., Cook & Swan, Kobe; Codliver, 50 cs., Schiefelin & Co., Christiania; Fusel, 16 drs., Order, Antwerp; 45 drs., Order, Hamburg; 15 drs., T. Maidatcha, Dairen; 18 drs., Walford Tdg. Co., Rotterdam; 45 drs., Credito Italiano, Rotterdam; 2 drs., A. Hurst Co., Rotterdam; Harlem, 2 cs., W. Van Doorn Co., Rotterdam; Linseed, 173 bbls., Fontana Bros., Antwerp; 117 bbls., Order, Rotterdam; 140 bbls., Elbert & Co., Rotterdam; 283 bbls., L. E. Frenkel, Rotterdam; 80 bbls.,

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More than 15,000 firms have enrolled themselves upon the Department of Commerce "Exporters' Index." These, with the hundreds of other correspondents of the Department, are sending in approximately 3,000 inquiries a day on their foreign trade problems. The following suggestions regarding the most effective methods to be followed in utilizing the facilities of the Department are made by Julius Klein, Director of the Bureau of Foreign and Domestic Commerce.

Personal contact between the inquirer and the Department affords the most satisfactory means of co-operation. This may involve a visit or telephone call to one of the 33 branch offices of the Bureau of Foreign and Domestic Commerce in this country, or a personal examination of the confidential trade data in Washington, instead of an expensive trip abroad.

Such requests as "Please give me all available information about coal exporting" or "Send us immediately a report on textile trade conditions abroad" can not produce satisfactory results. Many American firms write directly to consuls and commercial attaches for information—sometimes circularizing the entire Consular Service and the foreign staff of the Department of Commerce—before they make any effort to ascertain whether the data they desire is obtainable in this country.

A New York manufacturer may write to the consul general or trade commissioner at Calcutta, India, for information that he could obtain in ten minutes by a telephone call to the New York district office of the Bureau of Foreign and Domestic Commerce. By the former procedure he is sacrificing his own interest—because of the long delay involved—and is wasting the time of the Calcutta office, which probably has sent in the facts required to the Foreign Trade Bureau.

Rotterdam; 466 bbls., Order, Rotterdam; Olive, 45 bxs., G. Bittrito, Bari; 5 bbls., C. De Vito, Bari; 1 bbl., G. Errico, Bari; W. Benkert, Rotterdam; 144 bbls., Lockwood & Co., Rotterdam; 318 bbls., J. D. Lewis, Rotterdam; 145 bbls., Meteor Prod. Co., 8 bbls., A. Sella, Bari; 14 bbls., M. Pelletieri, Bari; 4 bxs., G. Modica, Bari; 10 bbls., A. Panno, Alicante; 425 bbls., Equit. Trust Co., Barcelona; 170 bbls., Order, Barcelona; 50 bbls., East River Nat. Bank, Malaga; 400 bbls., Rhode Island Hospital, Malaga; 300 cs., 70 bbls., A. E. Rittwagen Co., Malaga; 100 cs., Amer. Exp. Co., Valencia; 950 cs., W. A. Taylor Co., Seville; 25 bbls., Cartagena & Mavro, Seville; 200 bbls., First Nat. Bank Boston, Seville; 5 bbls., G. Arena, Catania; 12 csks., R. A. Gallo, Catania; 44 cs., 12 bbls., Colombo Co., Catania; 50 cs., Chiesa Lotera & Co., Bari; 7 bbls., U. L. De Carolis, Bari; 30 bxs., A. Maggio, 200 bbls., G. Giovaniello, Bari; 2 cs., M. Riso, Bari; 69 cs., M. Stallone, Bari; 25 cs., V. Lomuscio, Bari; 4 bbls., V. Cascone, Bari; 25 cs., D. Mililli, Bari; 6 bxs., P. Simisi, Bari; 24 cs., 4 bbls., R. Caraccia, Bari; 125 cs., N. Nitti, Bari; 24 bbls., V. Spadafina, Bari; 2 bbls., M. Tarulli, Bari; 3 bbls., Wilmington Fruit Co., Bari; 75 bbls., Bank of Amer., Marseilles; 25 cs., G. W. Sheldon & Co., Marseilles; 20 bbls., Order, Marseilles; 38 cs., C. Weddle, Grasse; 100 bbls., La Manna Azema & Farnan, Tarragona; 300 cs., Banca Comm. Italiana, Tarragona; 50 bbls., Hochheimer & Weisberg, Malaga; 55 bbls., A. E. Rittwagen, Malaga; 15 bbls., Achille Starace & Co., Malaga; 100 bbls., Scaramelli & Co., Malaga; 75 cs., Order, Malaga; Olive Oil Foots, 100 bbls., Order, Bari; Green, 600 bbls., Irving Bank Columbia Trust Co., Bari; Palm, 289 csks., African & Eastern Trdg. Co., Hamburg; 86 csks., Order, Hamburg; 160 csks., Nat. City Bank, Liverpool; 990 csks., D. Bacon, Liverpool; 413 csks., D. Bacon, Liverpool; 467 csks., Nat. Bank of Commerce, Liverpool; 84 csks., Order, Liverpool; 159 csks., J. Holt & Co., Lagos; Peanut, 15 bbls., Hunnel Co., Antwerp; Perilla, 625 bbls., Cook & Swann, Dairen; 300 bbls., Balfour Williamson & Co., Dairen; 1,280 bbls., Cook & Swann, Kobe; 500 bbls., Balfour Williamson & Co., Kobe; Rapeseed, 256 bbls., Vacuum Oil Co., Liverpool; Sulfur, 100 bbls., Order, Catania; 100 bbls., Brown Bros. & Co., Bari; 100 bbls., Banco Comm. Ital. Bari; 800 bbls., Nat. City Bank, Bari; Wood, 35 bbls., Nat. City Bank, Hankow; 150 csks., 220 cs., Viele Blackwell & Buck, Hankow; 1,200 bbls., Order, Hankow

OILS, ESSENTIAL—3 drs., Order, Valencia; 11 drs., Equitable Trust Co., Batavia; 100 cs., Dodge & Olcott Co., London; 3 drs., 2 cs., Order, Antwerp; 21 cs., Dodge & Olcott, London; 50 bbls., Order, London; 2 csks., W. Oppenheim & Sons, Havre; 2 cs., Fritzsche Bros., Catania; 2 cs., Roure Bertrand Fils, Havre; 3 bbls., Aspergren & Co., Marseilles; 1 cs., J. W. Lyon & Co., Grasse; 6 cs., Delph. Products Co., Grasse; 4 drs., F. N. Matos, Alicante; 1 drum, Order, Alicante; 4 csks., Order, Malaga; 9 cs., Polaks Frutal Wks., Rotterdam; 6 cs., J. W. Lyon, Rotterdam; Bay, 3 cs., Huth Gillespie & Co., Dominica; 6 cs., R. Moellhausen, St. Lucia; 1 cse., Planters Produce Co., Dominica; 4 cs., Royal Bank of Canada, Dominica; 3 cs., Lehn & Fink, St. Thomas; Camphor, 1 cse., Importers Comm. Co., Shanghai; 1 cse., Dodge & Olcott, Kobe; Cassia, 75 cs., Equit. Trust Co., Hongkong; Cinnamon, 12 drs., Amer. Exch. Nat. Bank, Colombo; Citronella, 44 drs., Equitable Trust Co., Batavia; 2 drs., Equit. Trust Co., Sourabaya; 5 drs., Amer. Exch. Nat. Bank, Colombo; 41 drs., Order, Colombo; 4 drs., Schulz & Ruckgaber, Colombo; 5 drs., Bank of Manhattan Co., Colombo; Eucalyptus, 11 drs., Order, Melbourne; Geranium, 1 csks., G. Lueders & Co., Mar-

seilles; Lavender, 7 csks., Order, Marseilles; 5 cs., Fritzsche Bros., Grasse; Lime, 14 cs., Middleton & Co., Dominica; 12 cs., Planters Produce Co., Dominica; Palmarosa, 2 pots, Order, Bombay; Rose, 12 cs., Brown Bros. & Co., Rotterdam; Rosewood, 4 drs., Middleton & Co., Cayenne; Ylang Ylang, 4 cs., Dodge & Olcott, Marseilles; 14 cs., Lautier Fils, Marseilles

PLUMBAGO—433 bbls., Order, Colombo

POTATO STARCH—700 bgs., Stein Hall & Co., Rotterdam; 500 bgs., Twentsche Bank, Rotterdam

POTASSIUM SALTS—6 cs., Mager Sonderburg Co., London; Caustic, 40 cs., Mallinckrodt Chem. Wks., Gothenburg; Chlorate, 7,000 csks., Order, Hamburg; 300 csks., C. W. Campbell & Co., Marseilles; 300 csks., 200 drs., Asia Bkg. Corp., Marseilles; Hydrate, 18 bbls., A. J. Marcus, Inc., Hamburg; Perchlorate, 20 bbls., Order, Swansea; 200 csks., C. W. Campbell & Co., Marseilles; 100 csks., Order, Marseilles

PYRIDIN—16 drs., Lunham & Moore, Rotterdam

QUICKSILVER—400 flasks, C. L. Huisking, Inc., Seville; 300 flasks, H. W. Peabody & Co., Seville; 14 flasks, I. Elizondo, Tampico; 1,000 flasks, Order, Alicante; 250 bottles, Order, London

ROOTS—60 bgs., Order, Hamburg; Arrow, 10 bbls., Brown Bros. & Co., London; 20 bbls., J. Morningstar & Co., Barbados; Burdock, 10 bgs., Order, Antwerp; Briar, 423 bbls., A. Vassas & Co., Marseilles; Vetivert, 4 bbls., S. B. Penick & Co., Marseilles; 3 bbls., Peck & Velsor, Marseilles

SAFFRON—2 cs., Banque Belge pour l'Etranger, Alicante

SAL AMMONIAC—20 csks., 10 bbls., C. De P. Field, Bristol

SALT—40,350 bushels, Order, Turks Island

SEEDS—Annatto, 49 bgs., Order, Madras; Anise, 60 csks., McLaughlin Gormley & King, Valencia; Canary, 100 bgs., C. Echavarria Co., Rotterdam; Cardamom, 30 pkgs., Amer. Exch. Nat. Bank, Colombo; 70 bgs., Amer. Exch. Nat. Bank, Colombo; Castor, 27,320 bgs., Order, Coconada; 7,130 bgs., Volkart Bros., Bombay; 1,358 bgs., Order, Bombay; 5,464 bgs., Volkart Bros., Coconada; Dill, 4 bgs., Order, Bombay; Fenugreek, 49 bgs., Order, Marseilles; Flax, 105,145 bgs., Order, Rosario; 47,992 bgs., 2,634,373 kilos, Order, Montevideo; 48,020 bgs., Spencer Kellogg & Sons, Rosario; 48,963 bgs., 2,602 tons, Order, Rosario; 8,413 bgs., L. Dreyfus & Co., Buenos Aires; 33,410 bgs., Order, Buenos Aires; Mustard, 80 csks., A. Joensson Co., London; 186 bgs., Order, Madras

SENNA—45 bbls., Order, Port Sudan; 8 bbls., Nat. Bank of Egypt, Port Sudan; 29 bbls., Order, Port Sudan; 16 bbls., Brown Bros. & Co., London; 25 bbls., Amer. Exch. Nat. Bank, Suez; Mixed, 22 bbls., Intern. Bank Egypt, Port Sudan; Siftings, 9 bbls., Intern. Bank Egypt, Port Sudan; 16 bbls., Nat. Bank of Egypt, Port Sudan

SHELLAC—100 bgs., Brown Bros. & Co., Colombo; 150 pkgs., Iwai, Ltd., Colombo; 255 bgs., Standard Bank of So. Africa, Colombo; 100 bgs., N. Y. Trust Co., Colombo; 50 bgs., Brit. Bank West Africa, Colombo; 300 bgs., London & Braz. Nat. Bank, Colombo; 450 bgs., First Nat. Bank Boston, Colombo; 1,256 bgs., Order, Colombo; 100 cs., London & Liverpool Bank of Commerce, London; 100 cs., Order, London; 350 bgs., Bank of Manhattan Co., Calcutta; 150 bgs., Brown Bros. & Co., Calcutta; 625 bgs., Chase Nat. Bank, Calcutta; 722 bgs., Order, Calcutta

SILVER—Sulfide, 5 cs., H. A. Watson & Co., Antofagasta; 318 bgs., Amer. Smeltg. & Refg. Co., Arica

SOAP—300 cs., J. P. Smith & Co., Marseilles; 150 cs., Bank of Amer., Marseilles

SODIUM SALTS—Cyanide, 336 cs., Nat. City Bank, Marseilles; Cyanure, 336 cs., Nat. City Bank, Havre; Nitrate, 1,088 bgs., W.

R. Grace & Co., Iquique; 28,067 bgs., W. R. Grace & Co., Antofagasta; Prussiate, 24 csks., H. J. Baker & Bro., Liverpool; 17 csks., Order, Rotterdam; Sulfite, 120 drs., R. F. Downing & Co., Bristol; 100 drs., R. F. Downing & Co., Bristol

SPICES—Annatto, 6 bgs., A. S. Lascelles Co., Montego Bay; Cassia, 106 pkgs., Equit. Trust Co., Batavia; 5,984 bbls., Order, Padang; 250 cs., Bank of Calif., Hongkong; 400 cs., B. C. Ritchie, Hongkong; 250 bbls., O. Gross, Hongkong; Cinnamon, 50 bbls., Amer. Exch. Nat. Bank, Colombo; 100 bbls., Order, Colombo; 100 bbls., Equit. Trust Co., Colombo; Quills, 240 bbls., Order, Colombo; Ginger, 200 bgs., Order, Cochín; 1,027 bgs., Order, Calicut; 1,477 bgs., W. M. Porter & Co., Freetown; 61 bgs., Darragh Small & Co., Alleppey; 8 bgs., A. S. Lascelles, Montego Bay; 204 bgs., Irving Bank, Alleppey; Nutmegs, 210 bgs., Order, Padang; 150 cs., Order, Singapore; Paprika, 100 bgs., Frank Tea & Spice Co., Valencia; 50 cs., F. B. Vandegrift & Co., Valencia; 50 bgs., Austin Nichols Co., Valencia; Pepper, 300 cs., Order, Valencia; 3,480 bgs., Order, Alleppey; 408 bgs., Order, Cochín; 560 bgs., Volkart Bros., Cochín; 1,262 bgs., Darragh Small & Co., Cochín; 400 bgs., Volkart Bros., Alleppey; Black, 250 bgs., Amer. Exch. Nat. Bank, Batavia; 400 bgs., Order, Calicut; 1,200 bgs., Amer. Exch. Nat. Bank, Tellicherry; 8,240 bgs., Order, Tellicherry; Red, 640 bgs., Amer. Exch. Nat. Bank, Tuticorin; Pimento, 13 csks., 15 cs., Judson Freight & Fwdg. Co., Alicante; 50 csks., E. M. Javitz & Sons, Alicante; 250 csks., 50 cs., Intercean Fwdg. Co., Alicante; 100 csks., Archibald & Lewis, Alicante; 300 cs., Order, Alicante; 250 bgs., W. Schall & Co., Port Maria Bay; 93 bgs., W. Schall & Co., Port Maria; Turmeric, 170 bgs., Order, Cochín; 1,560 bgs., Order, Cochín

SULFUR—Chloride, 1 csk., Goldschmidt Corp., Hamburg

SUMAC—10 csks., Order, Marseilles

TAPIOCA—334 bgs., Order, Liverpool

TARTAR—649 bgs., Royal Baking Powder Co., Valencia; 657 bgs., C. Pfizer & Co., Valencia; 89 bgs., C. Pfizer & Co., Tarragona; 105 csks., Tartar Chem. Wks., Marseilles; 352 csks., C. Pfizer & Co., Marseilles; 2 csks., Order, Marseilles

TEA WASTE—527 bgs., Maywood Chem. Wks., Tuticorin; 598 bgs., Maywood Chem. Wks., Calcutta

THEOBROMINE—3 cs., Merck & Co., Havre

VANILLA BEANS—20 cs., General Trans., Papeete; 41 cs., Order, Samarang; 21 cs., E. G. Lowgh, Guadeloupe; 57 cs., Dodge & Olcott, Marseilles; 42 cs., G. Lueders & Co., Marseilles; 19 cs., J. N. Limbert & Co., Marseilles

WAX—2 bgs., Yglesias & Co., Santo Domingo City; Bees, 16 bgs., W. R. Grace & Co., Talcahuano; 88 bgs., Strohmeyer & Arpe Co., Talcahuano; 14 bgs., Banco Aleman, Transatlantic, Talcahuano; 88 bgs., Strohmeyer & Arpe Co., Valparaiso; 74 csks., W. R. Grace & Co., Valparaiso; 25 bgs., W. H. Bowdler Co., Havana; 40 bgs., Order, London; 42 pkgs., E. A. Brummel & Co., Lisbon; 212 pkgs., Strohmeyer & Arpe Co., Lisbon; 168 pkgs., Order, Lisbon; 11 bgs., F. Ricart & Co., Santo Domingo City; 16 bgs., Yglesias & Co., Sanchez; Mineral, 100 bgs., A. B. Dick Co., London; Vegetable, 30 cs., Jan Chong, Kobe; White, 50 cs., Kwong Wah On, Kobe

WOOD FLOUR—2,624 bgs., Innis Speiden & Co., Gothenburg; 1,000 bgs., A. Kramer Co., Rotterdam

XYLOL—12 drs., Lunham & Moore, Rotterdam

ZINC—Resinate, 10 csks., Order, London; Sulfide, 2 csks., C. A. Sykes, London; 6 csks., E. L. Bullock & Sons, Rotterdam; White, 200 bbls., Reichard Coulston, Inc., Marseilles; 55 bbls., Order, Marseilles

Estimates of the amount of copper required for the automotive industry in 1923 are placed at 135,000,000 lbs. Statistics of the Copper and Brass Research Association showed that 108,280,000 lbs. of copper were used last year in the manufacture of autocars and trucks.

Tanker Hammac arrived at Baltimore from Vlaardingen, Holland May 18, with a cargo of beet molasses for Fleischman Yeast Co.

A students' course on the fundamentals of chemical engineering and industrial chemical practice has been arranged by the managers of the Chemical Exposition to be held during the exposition Sept. 17 to 22. No charge will be made, but each student must bring a card from his instructor.

Wage earnings increased in chemical plants in New York State during April, according to Industrial Commissioner Bernard L. Shientafi.

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WANTED—To purchase 1,000 lbs. or any part thereof Iron and Ammonium Citrate, Brown Scales. Preferably from an eastern point. Box 360, DRUG & CHEMICAL MARKETS.

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- 3—Bronze Drum Dryers.
- 10—Other Vacuum Dryers.

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For sale or exchange Saunders Pipe Threading Machine, Capacity 2 1/4 to 8 inches. Desire 36 inch Wooden Filter Press. Box 343, DRUG & CHEMICAL MARKETS.

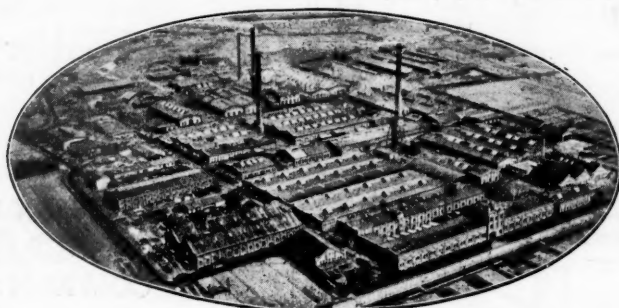
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Index To Advertisers

| | |
|----------------------------------------------------------------------------------|------------------|
| Abbott Laboratories | 1323 |
| Amecousema American Trading House..... | 1264 |
| Armstrong Cork Co. | 1161 |
| Baird & McGuire | 1407 |
| J. T. Baker Chemical Co. | 1385 |
| The Barrett Co. | 1162 |
| M. L. Barrett Co. | 1395 |
| Battelle & Renwick | 1390 |
| Belgian Trading Co. | 1398 |
| Buffalo Foundry & Machine Co..... | 1402 |
| W. J. Bush & Co. | 4th cover |
| Calco Chemical Co. | 1284 |
| Carbide & Carbon Chemical Corp..... | — |
| The Chatfield Mfg. Co. | 1265 |
| Chicago Starch Co. | 1339 |
| Antoine Chiris Co. | 1396 |
| Church & Dwight | 1330 |
| The Cleveland-Cliffs Iron Co..... | 1346 |
| The Cleveland Coöperage Co. | 1226 |
| Consolidated Products Co. | 1402 |
| Contact Process Co. | 1394 |
| Charles Cooper & Co..... | 1377 |
| Darco Sales Corp. | 1384 |
| Delphi Products, Inc. | 1394 |
| Diamond Alkali Co. | 1383 |
| J. E. Dockendorf & Co. | 1387 |
| The Dow Chemical Co. | 1st cover |
| E. I. du Pont de Nemours & Co., Lithopone, Pigments & Heavy Chemical Div..... | 1349 |
| Intermediates Department | 1386 |
| Dye Products & Chemical Co. | 1264 |
| Eastman Kodak Co. | 1337 |
| Elgin Bleaching Gas Co. | 1381 |
| East Aniline Works | 1330 |
| B. Feinberg | 1407 |
| Engelger & Co. | 1391 |
| Fräuche Bros. | 1387 |
| Ga. Chemical Co. | 1364 |
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